



# **RESEARCH EXPENDITURES**

September 1, 2005 – August 31, 2006

Texas Universities and  
Health-Related Institutions

Texas Higher Education Coordinating Board  
Division of Finance, Campus Planning, and Research  
P.O. Box 12788  
Austin, TX 78711-2788

June 2007

## Texas Higher Education Coordinating Board

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### Mission of the Coordinating Board

The Texas Higher Education Coordinating Board's mission is to work with the Legislature, Governor, governing boards, higher education institutions and other entities to help Texas meet the goals of the state's higher education plan, *Closing the Gaps by 2015*, and thereby provide the people of Texas the widest access to higher education of the highest quality in the most efficient manner.

### Philosophy of the Coordinating Board

The Texas Higher Education Coordinating Board will promote access to quality higher education across the state with the conviction that access without quality is mediocrity and that quality without access is unacceptable. The Board will be open, ethical, responsive, and committed to public service. The Board will approach its work with a sense of purpose and responsibility to the people of Texas and is committed to the best use of public monies. The Coordinating Board will engage in actions that add value to Texas and to higher education. The agency will avoid efforts that do not add value or that are duplicated by other entities.

The Texas Higher Education Coordinating Board does not discriminate on the basis of race, color, national origin, gender, religion, age or disability in employment or the provision of services.
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## EXECUTIVE SUMMARY

The first six sections of this report are based on data provided by universities and health-related institutions for Fiscal Year 2006 – September 1, 2005 through August 31, 2006.

Highlights include:

- Total reported research expenditures were \$3,182,963,943 in Fiscal Year 2006. Expenditures at public institutions increased 7.0 percent over Fiscal Year 2005 (from \$2,468,646,913 in FY 2005 to \$2,642,115,637 in FY 2006.)
- Research expenditures at public universities and health-related institutions grew \$56,062,441 (4.5 percent) and \$117,406,283 (9.6 percent), respectively, compared to Fiscal Year 2005.
- Research expenditures at public institutions increased by 108.7 percent since Fiscal Year 1996.
- Scientific discipline categories benefitting from the largest research expenditures include medical sciences – \$1,162,189,550; biological and other life sciences – \$820,380,576; engineering – \$410,415,831; and physical sciences – \$173,380,164.
- The federal government provided \$1,867,866,076 (58.7 percent) of the research funds expended.

The seventh section of this report is based on data provided by the National Science Foundation for Fiscal Year 2004, the most recent year for which data are available. Highlights include:

- Texas ranked third among the states in total research expenditures for Fiscal Year 2004. Life sciences accounted for 68 percent of the research expenditures, followed by engineering (13 percent) and physical sciences (6 percent), at Texas institutions.
- Texas institutions of higher education ranked fifth in federal obligations for *research and development* in science and engineering, after California, New York, Pennsylvania, and Maryland.
- The National Institutes of Health provide 65 percent of the federal research support for science and engineering to Texas higher education institutions.
- Eight institutions – Baylor College of Medicine, The University of Texas at Austin, The University of Texas Southwestern Medical Center at Dallas, Texas A&M University (including Texas A&M Service agencies), The University of Texas M.D. Anderson Cancer Center, The University of Texas Health Science Center at Houston, The University of Texas Health Science Center at San Antonio, and The University of Texas Medical Branch at Galveston – accounted for 83 percent of the federal obligations for research and development in science and engineering to Texas higher education institutions in Fiscal Year 2004.



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## OVERVIEW

The Texas Higher Education Coordinating Board's annual research expenditures report summarizes data submitted to the Board as required by Section 61.051(h) of the Texas Education Code, which states:

“Once a year, on dates prescribed by the board, each institution of higher education shall report to the board all research conducted at that institution during the last preceding year.”

The Coordinating Board's summary report is based on expenditures rather than awards because expenditures more accurately reflect the level of current research activity. Awards tend to fluctuate from year to year, making them a much less stable indicator for year-to-year comparisons. The Coordinating Board is only able to verify the accuracy of the research expenditures data by asking institutions to ensure that the data reported are consistent with data in their Annual Financial Reports.

Expenditures related to research are divided into two categories: expenditures for the conduct of (1) research and development and (2) other research-related sponsored activities. “Other research-related sponsored activities” refers to support received from external sources to fund activities that cannot be considered strictly research. Examples include grants for equipment or facilities, contracts to perform studies, and training. Definitions for both categories are included in the survey form that is Appendix A. Some institutions do not report funds used for other sponsored activities related to research. Expenditures for research and development account for 98.7 percent of all reported expenditures.

A set of definitions is provided in the research expenditures survey to help ensure consistency from institution to institution. Even with these safeguards, institutions have some latitude in determining how they report data.

Data elements and definitions used in this year's report are comparable to similar research expenditure data elements used by the National Science Foundation (NSF). The two sets of elements differ to some degree because the NSF focuses on science and technology alone, while the Coordinating Board's report includes research in all disciplines.

Collection of research expenditure data is a challenging task for institutions. Administrators face many difficulties as they sort out research expenditures at their institutions. For that reason, information they have submitted and the Coordinating Board's research expenditures report should be considered indicative rather than definitive.

Appendix A includes a copy of the survey form completed by each institution. Appendix B is a list of differences in THECB and NSF Survey. Appendix C includes a list of the institutional contacts who collected the data on their campuses.

This report also contains a section, beginning on page 32, that compares research funding in Texas with that of other states. These data are drawn from three National Science Foundation reports on research obligations and research expenditures.

## MAJOR FINDINGS

Total research expenditures at Texas public institutions of higher education increased by 7.0 percent during Fiscal Year 2006, continuing a long-term growth trend. Expenditures at public universities and health-related institutions grew \$56,062,441 (4.5 percent) and \$117,406,283 (9.6 percent), respectively, compared to Fiscal Year 2005.

As in most states, Texas' higher education research expenditures were concentrated in a relatively small number of institutions. Collectively, the top five institutions in research spending accounted for 65 percent of total research expenditures. The top 10 institutions accounted for 85 percent of the total. Seven of the state's health-related institutions ranked among the top 10 Texas public institutions in research expenditures.

In addition, the top eight institutions in Table 1 also appear in the National Science Foundation's list of top 100 institutions in federal research and development expenditures for Fiscal Year 2004.

**Table 1**

<b>Research and Development Expenditures Rankings, FY 2006</b>					
Institution	2002	2003	2004	2005	2006
The University of Texas at Austin	2	2	2	3	1
Texas A&M University (including Texas A&M Services)	1	1	1	2	2
Baylor College of Medicine*	-	-	-	1	3
The University of Texas M.D. Anderson Cancer Center	4	3	4	4	4
The University of Texas Southwestern Medical Center at Dallas	3	4	3	5	5
The University of Texas Health Science Center at Houston	5	5	5	6	6
The University of Texas Medical Branch at Galveston	7	6	6	7	7
The University of Texas Health Science Center at San Antonio	6	7	7	8	8
University of Houston	8	8	8	9	9
Texas A&M University System Health Science Center	10	10	9	10	10

\*FY2005 was the first year Baylor College of Medicine was included in this report.

At academic institutions<sup>1</sup> nationwide, the National Science Foundation/SRS, *Academic Research and Development Expenditures: Fiscal Year 2004, Table B-30* shows that 63.8 percent of the academic research was funded by the federal government. The federal

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<sup>1</sup>For this purpose, academic institutions are generally defined as institutions of higher education that grant bachelor's and higher degrees that reported at least \$150,000 in separately budgeted R&D expenditures in science and engineering in the previous fiscal year.

government funded 58.7 percent of all research expenditures by Texas institutions of higher education, making it the source of most research funds – as it is in other states. State government in Texas provided 16.3 percent of the funds for all research expenditures in the state’s higher education institutions (Figure 1). Institutional and private funding accounted for the remaining 25.0 percent.

The ratio of federal funds to state-appropriated funds for each of the 10 Texas institutions reporting the greatest research expenditures is provided in Table 2.

**Table 2**

<b>Federal/State Research and Development Expenditures Ratio Rankings, FY 2006</b>			
Institution	R&D Rank	Fed/State Ratio	Ratio Rank
Baylor College of Medicine*	3	43.61	1
The University of Texas Health Science Center at San Antonio	8	12.36	2
The University of Texas Medical Branch at Galveston	7	10.55	3
The University of Texas Southwestern Medical Center at Dallas	5	5.79	4
The University of Texas at Austin	1	5.71	5
The University of Texas Health Science Center at Houston	6	4.74	6
Texas A&M University System Health Science Center	10	2.47	7
University of Houston	9	2.12	8
Texas A&M University (including Texas A&M Services)	2	1.56	9
The University of Texas M.D. Anderson Cancer Center	4	1.50	10

\*FY2005 was the first year Baylor College of Medicine was included in this report. Although not ranked, the Univ North Texas HSC had the highest Fed/State ratio, 194.75.

Medical sciences, accounting for 37 percent of the total, led all other disciplines in expenditures. The top five disciplines – medical sciences, biological and other life sciences, engineering, physical sciences, and environmental sciences – collectively accounted for 84.7 percent of all reported research expenditures.

Texas ranked third among the states in total research expenditures for Fiscal Year 2004 (behind California and New York).

California (\$3.46 billion), New York (\$1.94 billion), Pennsylvania (\$1.49 billion), Maryland (\$1.38 billion), Texas (\$1.34 billion), and Massachusetts (\$1.34 billion) were the top six states in federal obligations for *research and development* in science and engineering for Fiscal Year 2004.

The National Institutes of Health, the Department of Defense, and the National Science Foundation provided 72.0 percent, 11.4 percent, and 7.4 percent, respectively, of the Fiscal Year 2004 federal obligations for *research and development* in science and engineering to Texas higher education institutions.

## STATEWIDE SUMMARY DATA

Table 3 and Figures 1–3 provide information on expenses and sources of funds for research and development at universities and health-related institutions.

Figure 4 shows growth rates in research and development expenditures for public universities and health-related institutions. Expenditures were \$173 million higher in Fiscal Year 2006 than in Fiscal Year 2005, with increases of \$56 million at public universities and \$117 million at public health-related institutions. Thirty-six percent of the increase is from federal sources.

**Table 3**

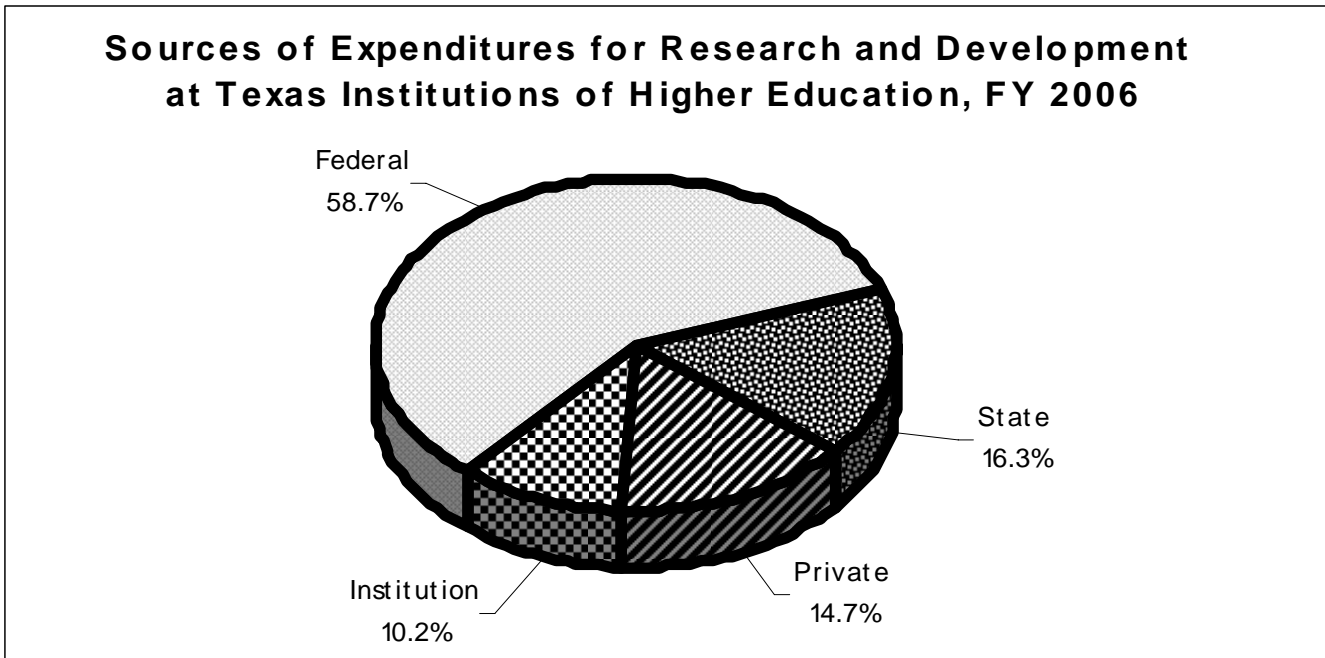
<b>Sources of Funds for Research and Development, FY 2006</b>				
	Federal	State		Institution
		Appropriated	Contracts and Grants	
<b>Public</b>				
Universities	\$715,511,880	\$188,607,425	\$98,128,695	\$139,172,540
Health-Related Institutions	\$787,660,775	\$205,870,794	\$18,809,931	\$70,290,520
<b>All Public Institutions</b>	<b>\$1,503,172,655</b>	<b>\$394,478,219</b>	<b>\$116,938,626</b>	<b>\$209,463,060</b>
<b>Independent</b>				
Universities	\$77,014,530	\$0	\$2,196,194	\$7,062,007
Health-Related Institutions	\$287,678,891	\$3,219,928	\$3,376,574	\$109,300,909
<b>All Independent Institutions</b>	<b>\$364,693,421</b>	<b>\$3,219,928</b>	<b>\$5,572,768</b>	<b>\$116,362,916</b>
Universities	\$792,526,410	\$188,607,425	\$100,324,889	\$146,234,547
Health-Related Institutions	\$1,075,339,666	\$209,090,722	\$22,186,505	\$179,591,429
<b>Totals</b>	<b>\$1,867,866,076</b>	<b>\$397,698,147</b>	<b>\$122,511,394</b>	<b>\$325,825,976</b>

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**Table 3 - continued**

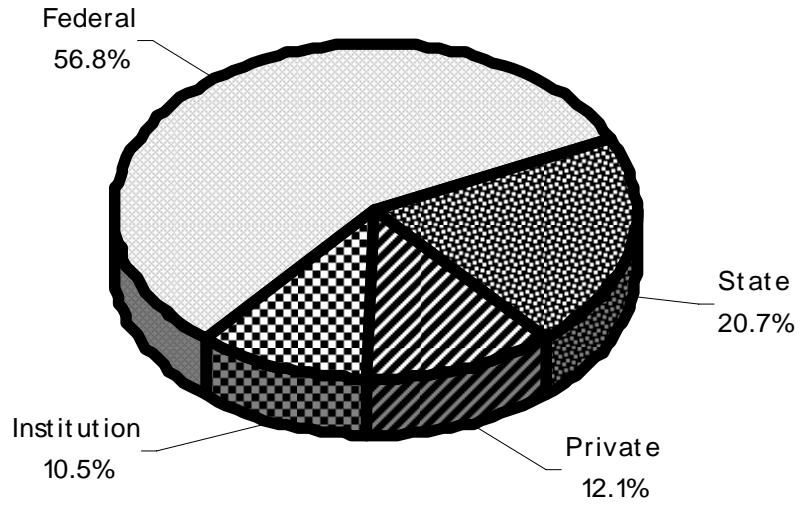
<b>Sources of Funds for Research and Development, FY 2006</b>			
	Private		Total
	Profit	Non-Profit	
<b>Public</b>			
Universities	\$79,412,711	\$77,919,691	\$1,298,752,942
Health-Related Institutions	\$82,280,891	\$178,449,784	\$1,343,362,695
<b>All Public Institutions</b>	\$161,693,602	\$256,369,475	\$2,642,115,637
<b>Independent</b>			
Universities	\$4,131,551	\$7,078,368	\$97,482,650
Health-Related Institutions	\$16,465,458	\$23,323,896	\$443,365,656
<b>All Independent Institutions</b>	\$20,597,009	\$30,402,264	\$540,848,306
Universities	\$83,544,262	\$84,998,059	\$1,396,235,592
Health-Related Institutions	\$98,746,349	\$201,773,680	\$1,786,728,351
<b>Totals</b>	<b>\$182,290,611</b>	<b>\$286,771,739</b>	<b>\$3,182,963,943</b>

**Figure 1**



**Figure 2**

**Sources of Expenditures for Research and Development  
at Texas Universities, FY 2006**



**Figure 3**

**Sources of Expenditures for Research and Development  
Texas Health-Related Institutions, FY 2006**

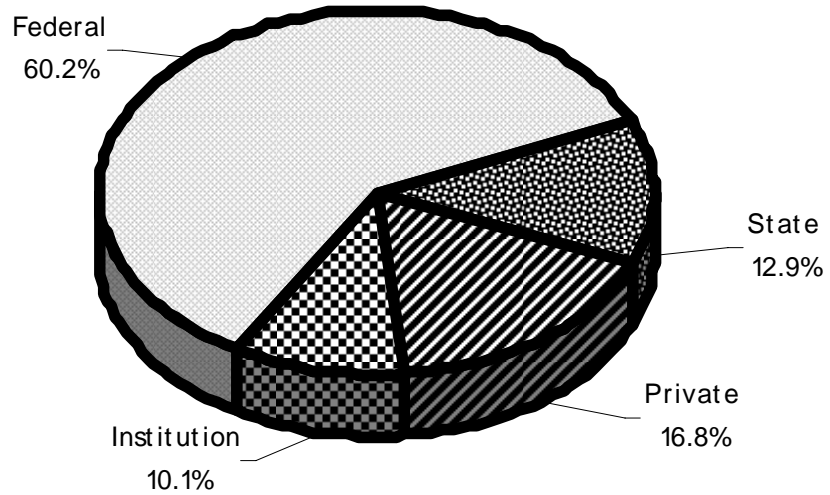
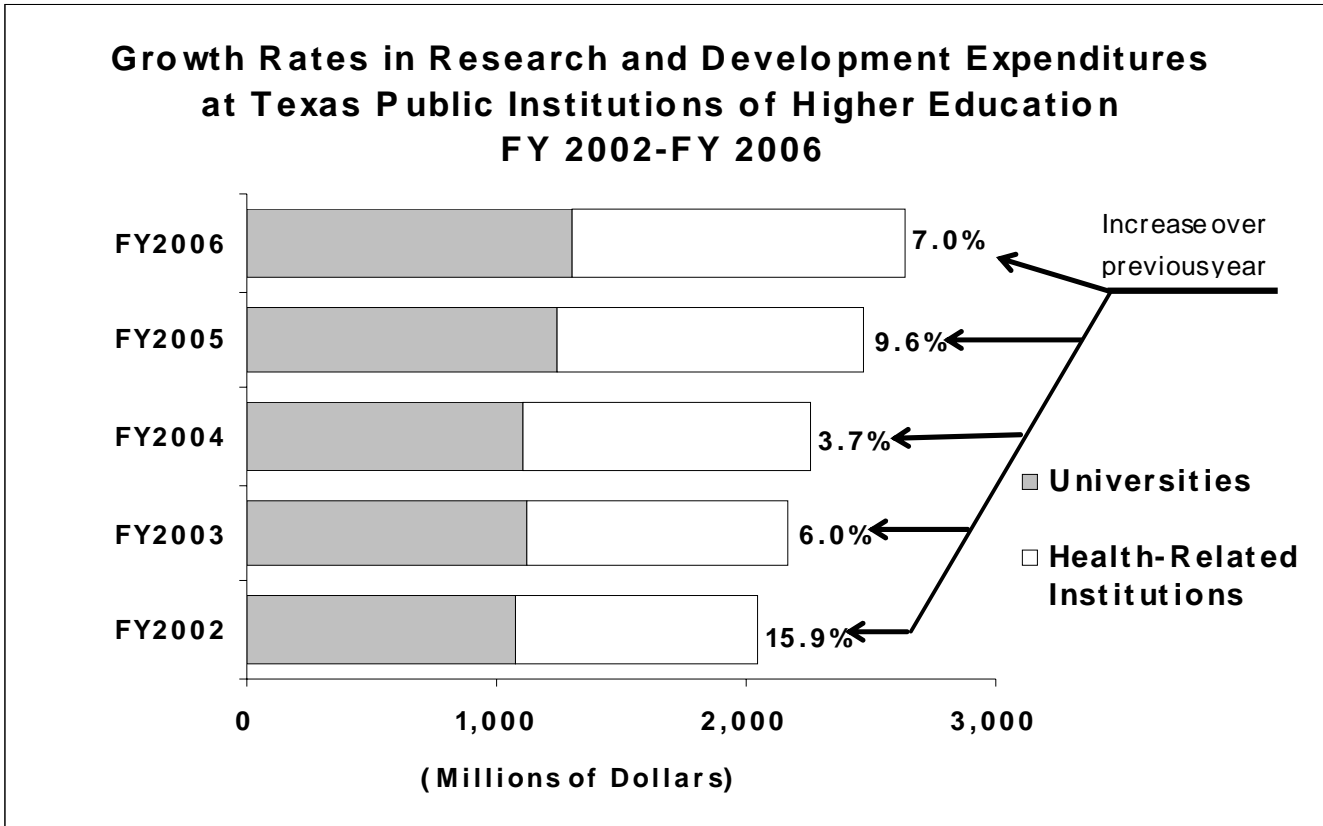


Figure 4



The accelerated growth in research expenditures peaked in 2002, dropping precipitously in two of the following years to overall growth rates comparable to those of the mid-1990s, and well below those characteristic of the 1980s. The sudden decline in the growth rate of research expenditures at public universities in Fiscal Years 2003 and 2004 is a unique feature in the history of research expenditures at Texas public higher education institutions, and resulted from slow growth in federal support and reduction in state support during those years.



Table 4 indicates expenditures in the 16 different fields defined in Appendix A. The Coordinating Board's instructions directed institutions to assign project expenditures to only one field to avoid duplication.

For the most part, this table reflects expenditures in particular academic disciplines. Some inconsistency may result, however, as institutions strive to categorize a particular research project into only one field. For example, a college of agriculture could perform basic research in biological sciences and report expenses in that field rather than in agricultural sciences.

Proportions of expenses by discipline are shown in Figure 5. Medical and biological sciences account for slightly more than 62 percent of all research expenditures.

**Table 4**

<b>Expenditures for Conduct of R&amp;D by Field and Source of Funding, FY 2006 Texas Institutions of Higher Education</b>				
	Federal	State		Institution
		Appropriated	Contracts and Grants	
Agricultural Sciences	\$38,748,973	\$27,905,353	\$3,895,476	\$12,015,774
Biological and Other Life Sciences	\$516,256,755	\$111,957,309	\$5,610,617	\$81,417,841
Computer Science	\$48,781,635	\$6,184,533	\$4,265,626	\$3,289,615
Engineering	\$217,786,514	\$39,759,030	\$55,795,901	\$40,247,544
Environmental Sciences	\$83,431,363	\$14,811,422	\$8,294,165	\$7,183,952
Mathematical Sciences	\$35,739,777	\$13,557,705	\$611,947	\$2,992,764
Medical Sciences	\$677,208,333	\$123,175,206	\$21,610,929	\$127,732,279
Physical Sciences	\$116,521,706	\$15,620,157	\$811,917	\$14,469,114
Psychology	\$33,416,743	\$3,685,947	\$4,391,264	\$3,621,646
Social Sciences	\$23,337,622	\$11,233,476	\$9,233,691	\$4,855,317
Other Sciences	\$10,741,742	\$6,131,095	\$593,167	\$2,739,339
Arts and Humanities	\$1,245,091	\$1,153,425	\$739,351	\$4,368,598
Business Administration	\$1,910,319	\$3,079,405	\$613,080	\$2,171,027
Education	\$46,631,357	\$1,616,689	\$3,971,735	\$4,818,031
Law and Public Administration	\$3,360,329	\$1,695,065	\$975,787	\$150,411
Other Non-Science Activities	\$12,747,817	\$16,132,330	\$1,096,741	\$13,752,724
<b>Totals</b>	<b>\$1,867,866,076</b>	<b>\$397,698,147</b>	<b>\$122,511,394</b>	<b>\$325,825,976</b>

(table continued on next page)

Table 4 - continued

Expenditures for Conduct of R&D by Field and Source of Funding, FY 2006 Texas Institutions of Higher Education			
	Private		Total
	Profit	Non-Profit	
Agricultural Sciences	\$4,108,557	\$7,583,604	\$94,257,737
Biological and Other Life Sciences	\$16,803,753	\$88,334,301	\$820,380,576
Computer Science	\$2,481,888	\$1,198,206	\$66,201,503
Engineering	\$40,144,915	\$16,681,927	\$410,415,831
Environmental Sciences	\$10,731,243	\$6,438,052	\$130,890,197
Mathematical Sciences	\$3,546,442	\$1,843,719	\$58,292,354
Medical Sciences	\$88,012,346	\$124,450,457	\$1,162,189,550
Physical Sciences	\$8,246,285	\$17,710,985	\$173,380,164
Psychology	\$386,910	\$1,376,887	\$46,879,397
Social Sciences	\$2,532,151	\$6,606,828	\$57,799,085
Other Sciences	\$844,652	\$1,893,496	\$22,943,491
Arts and Humanities	\$669,710	\$1,452,400	\$9,628,575
Business Administration	\$1,933,102	\$3,424,111	\$13,131,044
Education	\$459,845	\$5,315,975	\$62,813,632
Law and Public Administration	\$162,006	\$431,567	\$6,775,165
Other Non-Science Activities	\$1,226,806	\$2,029,224	\$46,985,642
<b>Totals</b>	<b>\$182,290,611</b>	<b>\$286,771,739</b>	<b>\$3,182,963,943</b>

Figure 5

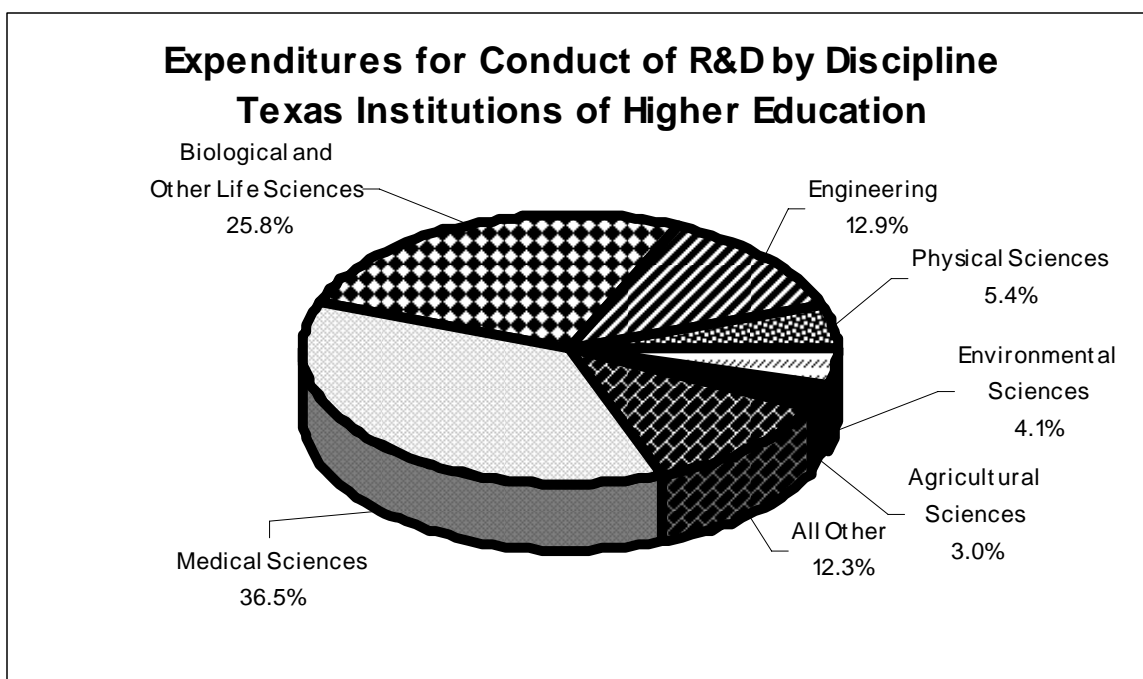


Table 5 shows research in nine different areas of special interest at universities, and Table 6 shows research in six different areas of special interest at health-related institutions. Double counting was allowed because many projects are relevant to two or more areas of research.

**Table 5**

<b>Expenditures for Conduct of R&amp;D in Areas of Special Interest, FY 2006 Texas Universities</b>				
	Federal	State		Institution
		Appropriated	Contracts and Grants	
Aerospace Technology	\$14,450,401	\$1,198,318	\$1,110,811	\$672,748
Biotechnology	\$58,419,974	\$26,152,976	\$2,298,989	\$5,227,142
Energy	\$32,236,570	\$5,544,791	\$1,050,351	\$1,285,943
Environmental Science & Engineering	\$47,210,052	\$13,476,053	\$4,091,638	\$4,697,730
Food, Fiber, Agricultural Products	\$25,922,640	\$31,075,990	\$2,272,387	\$16,265,805
Manufacturing Technology	\$8,628,694	\$1,421,638	\$571,457	\$609,399
Materials Science	\$29,031,681	\$1,208,283	\$4,832,940	\$1,788,526
Microelectronics & Computer Technology	\$54,536,121	\$5,569,842	\$1,711,604	\$3,340,330
Water Resources	\$10,465,584	\$4,345,427	\$2,034,467	\$2,128,634
<b>Totals</b>	<b>\$280,901,717</b>	<b>\$89,993,318</b>	<b>\$19,974,644</b>	<b>\$36,016,257</b>

**Table 5 - continued**

<b>Expenditures for Conduct of R&amp;D in Areas of Special Interest, FY 2006 Texas Universities</b>			
	Private		Total
	Profit	Non-Profit	
Aerospace Technology	\$786,837	\$469,692	\$18,688,807
Biotechnology	\$4,609,877	\$7,366,045	\$104,075,003
Energy	\$2,653,595	\$7,930,932	\$50,702,182
Environmental Science & Engineering	\$1,784,554	\$8,718,126	\$79,978,153
Food, Fiber, Agricultural Products	\$3,856,782	\$8,002,385	\$87,395,989
Manufacturing Technology	\$749,142	\$555,150	\$12,535,480
Materials Science	\$3,541,806	\$3,839,456	\$44,242,692
Microelectronics & Computer Technology	\$2,735,701	\$6,192,614	\$74,086,212
Water Resources	\$1,177,042	\$1,066,555	\$21,217,709
<b>Totals</b>	<b>\$21,895,336</b>	<b>\$44,140,955</b>	<b>\$492,922,227</b>

**Table 6**

<b>Expenditures for Conduct of R&amp;D in Areas of Special Interest, FY 2006 Texas Health-Related Institutions</b>				
	Federal	State		Institution
		Appropriated	Contracts and Grants	
Aging	\$46,658,628	\$1,365,643	\$214,228	\$2,594,511
Cancer Research	\$276,052,636	\$127,330,655	\$516,522	\$49,224,268
Cardiovascular Research	\$83,354,378	\$2,555,507	\$90,499	\$11,842,676
Child Health and Human Development	\$86,489,079	\$490,900	\$7,723,261	\$11,409,888
Mental Health	\$46,027,921	\$632,004	\$238,851	\$7,297,378
Substance Abuse	\$27,354,392	\$359,575	\$406,131	\$1,784,154
<b>Totals</b>	<b>\$565,937,034</b>	<b>\$132,734,284</b>	<b>\$9,189,492</b>	<b>\$84,152,875</b>

**Table 6 - continued**

<b>Expenditures for Conduct of R&amp;D in Areas of Special Interest, FY 2006 Texas Health-Related Institutions</b>			
	Private		Total
	Profit	Non-Profit	
Aging	\$1,087,211	\$4,362,703	\$56,282,924
Cancer Research	\$35,408,163	\$68,487,149	\$557,019,393
Cardiovascular Research	\$6,184,806	\$22,583,816	\$126,611,682
Child Health and Human Development	\$3,981,357	\$10,797,657	\$120,892,142
Mental Health	\$5,611,958	\$5,293,867	\$65,101,979
Substance Abuse	\$1,120,529	\$900,381	\$31,925,162
<b>Totals</b>	<b>\$53,394,024</b>	<b>\$112,425,573</b>	<b>\$957,833,282</b>

## INSTITUTIONAL DATA – UNIVERSITIES

This section of the report contains detailed information on research expenditures reported by individual institutions. Statements related to data quality and applicability found on page 1 of this report also apply to the data shown in this section of the report.

**Figure 6**

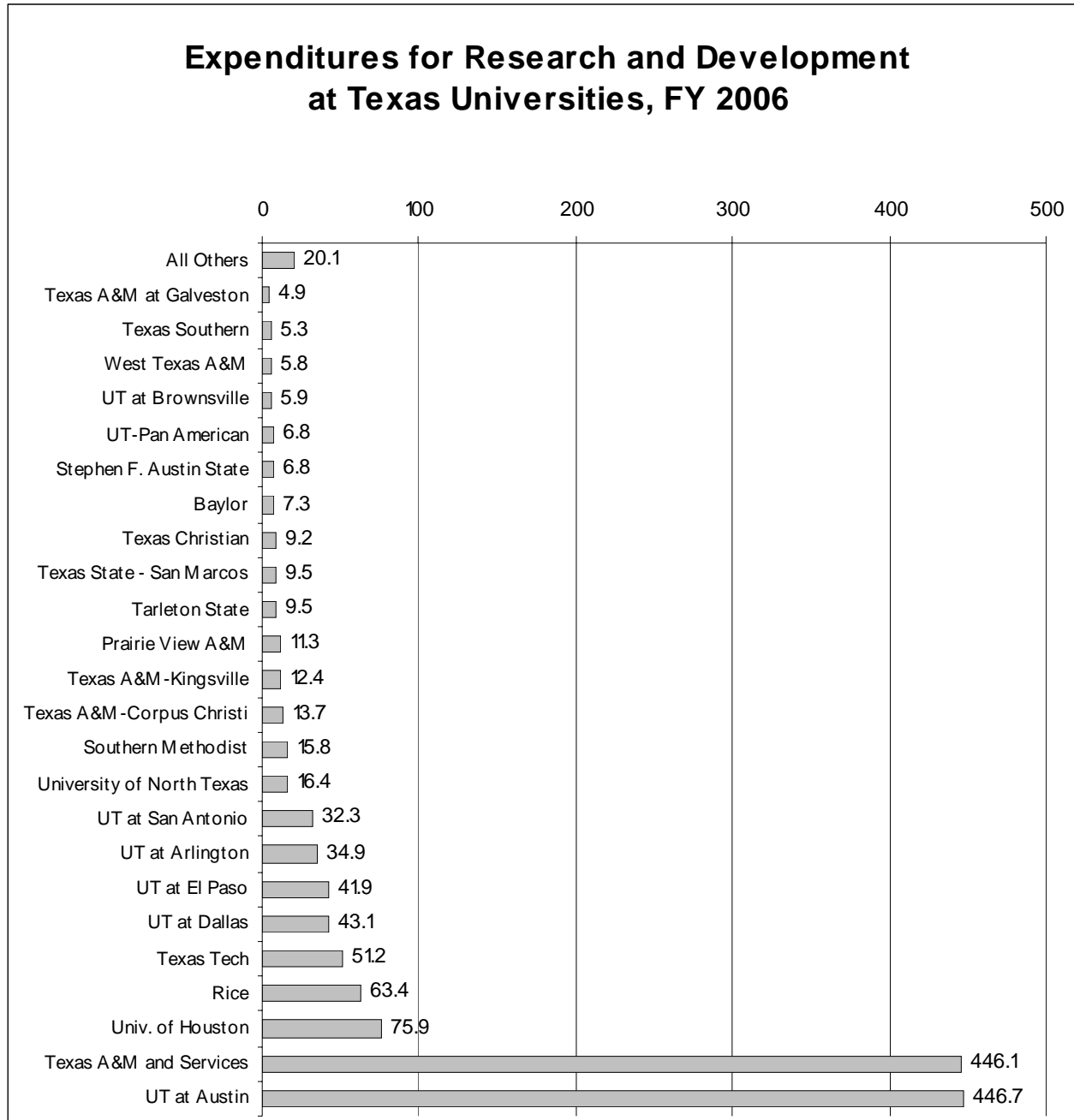


Table 7

Total Expenditures for Research and Other Research-Related Sponsored Programs by Source of Funds, Texas Universities, FY 2006						
Institution	Federal		State			
			Appropriated		Contracts and Grants	
	R&D	Other	R&D	Other	R&D	Other
Midwestern State	\$0	\$0	\$0	\$0	\$0	\$0
Stephen F. Austin State	\$3,739,260	\$0	\$1,032,072	\$0	\$314,737	\$0
<b>Texas A&amp;M University System*</b>						
Prairie View A&M	\$9,067,524	\$117,774	\$1,631,118	\$0	\$92,680	\$12,034
Tarleton State	\$5,487,270	\$0	\$2,297,234	\$0	\$1,256,365	\$0
Texas A&M and Services	\$200,756,607	\$600,574	\$92,163,197	\$916,695	\$36,468,540	\$227,251
Texas A&M-Commerce	\$303,856	\$914	\$150,492	\$0	\$399,785	\$24,734
Texas A&M-Corpus Christi	\$7,970,993	\$0	\$1,856,430	\$0	\$1,174,704	\$0
Texas A&M at Galveston	\$2,974,076	\$0	\$626,605	\$296,485	\$368,181	\$0
Texas A&M International	\$193,353	\$0	\$0	\$0	\$18,214	\$0
Texas A&M-Kingsville	\$4,624,586	\$0	\$1,071,944	\$0	\$866,639	\$0
Texas A&M-Texarkana	\$56,690	\$0	\$0	\$3,930	\$0	\$0
West Texas A&M	\$2,693,769	\$0	\$2,250,461	\$2,012,466	\$102,122	\$0
Texas Southern	\$4,797,144	\$0	\$0	\$0	\$392,587	\$0
<b>Texas State University System</b>						
Angelo State	\$109,084	\$0	\$476,303	\$0	\$88,837	\$0
Lamar	\$1,785,278	\$139,533	\$848,074	\$155,380	\$562,111	\$58,293
Sam Houston State	\$1,118,465	\$0	\$203,134	\$0	\$542,604	\$0
Sul Ross State	\$1,509,828	\$0	\$368,196	\$0	\$105,744	\$0
Sul Ross - Rio Grande	\$0	\$0	\$3,409	\$0	\$0	\$0
Texas State - San Marcos	\$1,930,534	\$0	\$1,228,778	\$0	\$1,902,774	\$0
Texas Tech	\$23,321,205	\$0	\$12,597,643	\$0	\$4,541,090	\$0
Texas Woman's	\$637,390	\$0	\$370,374	\$0	\$167,953	\$0
<b>University of Texas System</b>						
UT at Arlington	\$19,095,309	\$0	\$10,224,182	\$0	\$1,311,815	\$0
UT at Austin	\$294,832,202	\$0	\$25,557,370	\$0	\$26,100,358	\$0
UT at Brownsville	\$5,131,456	\$0	\$197,694	\$0	\$30,000	\$0
UT at Dallas	\$19,953,502	\$0	\$4,628,828	\$911,887	\$9,965,364	\$0
UT at El Paso	\$26,821,331	\$0	\$8,850,292	\$0	\$1,025,312	\$0
UT-Pan American	\$4,237,445	\$0	\$2,004,431	\$0	\$34,632	\$0
UT of the Permian Basin	\$348,266	\$0	\$681,822	\$0	\$12,413	\$0
UT at San Antonio	\$21,463,037	\$0	\$4,597,486	\$0	\$1,605,095	\$0
UT at Tyler	\$438,123	\$15,789	\$0	\$0	\$197,916	\$167,395
<b>University of Houston System</b>						
Univ. of Houston	\$40,439,387	\$0	\$11,421,971	\$0	\$7,641,328	\$0
Univ. of Houston-Clear Lake	\$315,272	\$0	\$588,845	\$0	\$89,635	\$0
Univ. of Houston-Downtown	\$329,461	\$0	\$123,476	\$0	\$0	\$0
Univ. of Houston-Victoria	\$0	\$0	\$0	\$0	\$0	\$0
University of North Texas	\$9,030,177	\$0	\$555,564	\$0	\$749,160	\$0
<b>Independent Universities</b>						
Abilene Christian	\$230,914	\$1,093,646	\$0	\$0	\$0	\$223,581
Baylor Univ.	\$1,716,250	\$1,796,754	\$0	\$0	\$316,713	\$25,134
Rice	\$54,464,975	\$8,843,550	\$0	\$0	\$1,479,475	\$118,897
Southern Methodist	\$11,705,150	\$1,529,973	\$0	\$0	\$209,390	\$7,481
St. Mary's	\$183,000	\$0	\$0	\$0	\$0	\$0
Texas Christian	\$7,996,814	\$3,654,665	\$0	\$0	\$190,616	\$0
Trinity	\$717,427	\$773,165	\$0	\$0	\$0	\$550
<b>Totals</b>	<b>\$792,526,410</b>	<b>\$18,566,337</b>	<b>\$188,607,425</b>	<b>\$4,296,843</b>	<b>\$100,324,889</b>	<b>\$865,350</b>

Shading indicates the five highest in each category.

\* A&M agency and research foundation expenditures reported by individual affiliated university.

(table continued on next page)

Table 7 - continued

Total Expenditures for Research and Other Research-Related Sponsored Programs by Source of Funds, Texas Universities, FY 2006						
Institution	Institution		Private, Profit		Private, Non-Profit	
	R&D	Other	R&D	Other	R&D	Other
Midwestern State	\$0	\$0	\$0	\$0	\$67,146	\$0
Stephen F. Austin State	\$1,169,419	\$6,192	\$243,074	\$0	\$350,788	\$0
<b>Texas A&amp;M University System*</b>						
Prairie View A&M	\$328,922	\$969,122	\$26,237	\$0	\$106,323	\$0
Tarleton State	\$75,812	\$0	\$59,268	\$0	\$345,584	\$0
Texas A&M and Services	\$69,558,944	\$2,178,160	\$23,318,859	\$1,050,338	\$23,845,957	\$76,895
Texas A&M-Commerce	\$0	\$0	\$154,042	\$48,595	\$173,992	\$123,133
Texas A&M-Corpus Christi	\$741,443	\$0	\$44,701	\$0	\$1,919,206	\$0
Texas A&M at Galveston	\$263,362	\$47,434	\$32,604	\$0	\$624,604	\$65
Texas A&M International	\$25,266	\$0	\$0	\$0	\$0	\$0
Texas A&M-Kingsville	\$2,677,627	\$0	\$258,057	\$0	\$2,935,474	\$0
Texas A&M-Texarkana	\$0	\$0	\$0	\$0	\$0	\$0
West Texas A&M	\$0	\$0	\$364,007	\$0	\$405,316	\$0
Texas Southern	\$1,946	\$0	\$76,067	\$0	\$26,264	\$0
<b>Texas State University System</b>						
Angelo State	\$0	\$0	\$42,226	\$0	\$36,059	\$0
Lamar	\$6,274	\$184,776	\$9,031	\$1,512	\$66,738	\$38,451
Sam Houston State	\$1,180,551	\$0	\$27,800	\$0	\$70,383	\$0
Sul Ross State	\$0	\$0	\$0	\$0	\$604,835	\$0
Sul Ross - Rio Grande	\$0	\$0	\$0	\$0	\$0	\$0
Texas State - San Marcos	\$3,044,499	\$0	\$104,618	\$0	\$1,286,342	\$0
Texas Tech	\$1,793,667	\$602,815	\$5,638,560	\$0	\$3,268,739	\$0
Texas Woman's	\$613,277	\$653,915	\$114,731	\$0	\$175,011	\$0
<b>University of Texas System</b>						
UT at Arlington	\$112,581	\$0	\$2,761,004	\$0	\$1,360,177	\$0
UT at Austin	\$37,219,810	\$0	\$38,984,120	\$0	\$23,992,743	\$0
UT at Brownsville	\$424,470	\$0	\$0	\$0	\$106,824	\$0
UT at Dallas	\$2,007,012	\$3,872,747	\$2,232,279	\$0	\$4,298,251	\$0
UT at El Paso	\$2,655,959	\$3,754,013	\$318,807	\$0	\$2,261,481	\$0
UT-Pan American	\$30,181	\$0	\$3,419	\$0	\$480,484	\$0
UT of the Permian Basin	\$1,304,459	\$0	\$0	\$0	\$30,696	\$0
UT at San Antonio	\$3,441,952	\$0	\$226,396	\$0	\$982,883	\$0
UT at Tyler	\$41,216	\$50,104	\$60,714	\$0	\$177,055	\$0
<b>University of Houston System</b>						
Univ. of Houston	\$6,891,687	\$0	\$3,396,170	\$0	\$6,079,454	\$0
Univ. of Houston-Clear Lake	\$83,064	\$0	\$10,884	\$0	\$126,277	\$0
Univ. of Houston-Downtown	\$38,567	\$0	\$533	\$0	\$17,081	\$0
Univ. of Houston-Victoria	\$0	\$0	\$0	\$0	\$0	\$0
University of North Texas	\$3,440,573	\$0	\$904,503	\$0	\$1,697,524	\$0
<b>Independent Universities</b>						
Abilene Christian	\$78,295	\$0	\$0	\$0	\$20,337	\$13,149
Baylor Univ.	\$1,811,605	\$0	\$2,196,013	\$375,776	\$1,233,556	\$708,441
Rice	\$2,422,190	(\$14,611)	\$1,573,783	\$0	\$3,470,105	\$906,057
Southern Methodist	\$2,577,590	\$976,828	\$361,755	\$46,684	\$969,301	\$489,930
St. Mary's	\$0	\$0	\$0	\$0	\$0	\$0
Texas Christian	\$134,861	\$0	\$0	\$0	\$907,670	\$10,858
Trinity	\$37,466	\$22,393	\$0	\$0	\$477,399	\$1,334,724
<b>Totals</b>	<b>\$146,234,547</b>	<b>\$13,303,888</b>	<b>\$83,544,262</b>	<b>\$1,522,905</b>	<b>\$84,998,059</b>	<b>\$3,701,703</b>

Shading indicates the five highest in each category.

\* A&amp;M agency and research foundation expenditures reported by individual affiliated university.

(table continued on next page)

Table 7 - continued

Total Expenditures for Research and Other Research-Related Sponsored Programs by Source of Funds, Texas Universities, FY 2006			
Institution	Total		
	R&D	Other	R&D and Other
Midwestern State	\$67,146	\$0	\$67,146
Stephen F. Austin State	\$6,849,350	\$6,192	\$6,855,542
<b>Texas A&amp;M University System*</b>			
Prairie View A&M	\$11,252,804	\$1,098,930	\$12,351,734
Tarleton State	\$9,521,533	\$0	\$9,521,533
Texas A&M and Services	\$446,112,104	\$5,049,913	\$451,162,017
Texas A&M-Commerce	\$1,182,167	\$197,376	\$1,379,543
Texas A&M-Corpus Christi	\$13,707,477	\$0	\$13,707,477
Texas A&M at Galveston	\$4,889,432	\$343,984	\$5,233,416
Texas A&M International	\$236,833	\$0	\$236,833
Texas A&M-Kingsville	\$12,434,327	\$0	\$12,434,327
Texas A&M-Texarkana	\$56,690	\$3,930	\$60,620
West Texas A&M	\$5,815,675	\$2,012,466	\$7,828,141
Texas Southern	\$5,294,008	\$0	\$5,294,008
<b>Texas State University System</b>			
Angelo State	\$752,509	\$0	\$752,509
Lamar	\$3,277,506	\$577,945	\$3,855,451
Sam Houston State	\$3,142,937	\$0	\$3,142,937
Sul Ross State	\$2,588,603	\$0	\$2,588,603
Sul Ross - Rio Grande	\$3,409	\$0	\$3,409
Texas State - San Marcos	\$9,497,545	\$0	\$9,497,545
Texas Tech	\$51,160,904	\$602,815	\$51,763,719
Texas Woman's	\$2,078,736	\$653,915	\$2,732,651
<b>University of Texas System</b>			
UT at Arlington	\$34,865,068	\$0	\$34,865,068
UT at Austin	\$446,686,603	\$0	\$446,686,603
UT at Brownsville	\$5,890,444	\$0	\$5,890,444
UT at Dallas	\$43,085,236	\$4,784,634	\$47,869,870
UT at El Paso	\$41,933,182	\$3,754,013	\$45,687,195
UT-Pan American	\$6,790,592	\$0	\$6,790,592
UT of the Permian Basin	\$2,377,656	\$0	\$2,377,656
UT at San Antonio	\$32,316,849	\$0	\$32,316,849
UT at Tyler	\$915,024	\$233,288	\$1,148,312
<b>University of Houston System</b>			
Univ. of Houston	\$75,869,997	\$0	\$75,869,997
Univ. of Houston-Clear Lake	\$1,213,977	\$0	\$1,213,977
Univ. of Houston-Downtown	\$509,118	\$0	\$509,118
Univ. of Houston-Victoria	\$0	\$0	\$0
University of North Texas	\$16,377,501	\$0	\$16,377,501
<b>Independent Universities</b>			
Abilene Christian	\$329,546	\$1,330,376	\$1,659,922
Baylor Univ.	\$7,274,137	\$2,906,105	\$10,180,242
Rice	\$63,410,528	\$9,853,893	\$73,264,421
Southern Methodist	\$15,823,186	\$3,050,896	\$18,874,082
St. Mary's	\$183,000	\$0	\$183,000
Texas Christian	\$9,229,961	\$3,665,523	\$12,895,484
Trinity	\$1,232,292	\$2,130,832	\$3,363,124
<b>Totals</b>	<b>\$1,396,235,592</b>	<b>\$42,257,026</b>	<b>\$1,438,492,618</b>

Shading indicates the five highest in each category.

\* A&M agency and research foundation expenditures reported by individual affiliated university.



Table 8

Federal R&D Expenditures/FTE Faculty Ratio, FY 2006			
Texas Public Universities			
Institution	Federal R&D Expenditures	FTE Faculty*	Federal R&D Expenditures/FTE
Midwestern State	\$0	154.50	\$0.00
Stephen F. Austin State	\$3,739,260	349.58	\$10,696.44
<b>Texas A&amp;M University System**</b>			
Prairie View A&M	\$9,067,524	212.29	\$42,712.91
Tarleton State	\$5,487,270	212.50	\$25,822.45
Texas A&M and Services***	\$200,756,607	1,632.27	\$122,992.28
Texas A&M-Commerce	\$303,856	193.75	\$1,568.29
Texas A&M-Corpus Christi	\$7,970,993	182.44	\$43,691.04
Texas A&M at Galveston	\$2,974,076	30.42	\$97,767.13
Texas A&M International	\$193,353	133.83	\$1,444.77
Texas A&M-Kingsville	\$4,624,586	210.25	\$21,995.65
Texas A&M-Texarkana	\$56,690	46.66	\$1,214.96
West Texas A&M	\$2,693,769	178.62	\$15,081.00
Texas Southern	\$4,797,144	193.71	\$24,764.57
<b>Texas State University System</b>			
Angelo State	\$109,084	160.94	\$677.79
Lamar	\$1,785,278	255.04	\$6,999.99
Sam Houston State	\$1,118,465	366.08	\$3,055.25
Sul Ross State	\$1,509,828	68.05	\$22,187.04
Sul Ross - Rio Grande	\$0	23.83	\$0.00
Texas State - San Marcos	\$1,930,534	435.68	\$4,431.08
Texas Tech	\$23,321,205	892.47	\$26,131.08
Texas Woman's	\$637,390	276.11	\$2,308.46
<b>University of Texas System</b>			
UT at Arlington	\$19,095,309	524.68	\$36,394.20
UT at Austin	\$294,832,202	1,733.12	\$170,116.44
UT at Brownsville	\$5,131,456	138.30	\$37,103.80
UT at Dallas	\$19,953,502	304.02	\$65,632.20
UT at El Paso	\$26,821,331	447.03	\$59,998.95
UT-Pan American	\$4,237,445	397.47	\$10,661.04
UT of the Permian Basin	\$348,266	87.75	\$3,968.84
UT at San Antonio	\$21,463,037	472.84	\$45,391.75
UT at Tyler	\$438,123	158.31	\$2,767.50
<b>University of Houston System</b>			
Univ. of Houston	\$40,439,387	853.13	\$47,401.20
Univ. of Houston-Clear Lake	\$315,272	178.99	\$1,761.39
Univ. of Houston-Downtown	\$329,461	207.89	\$1,584.79
Univ. of Houston-Victoria	\$0	64.80	\$0.00
University of North Texas	\$9,030,177	696.28	\$12,969.17
<b>Totals</b>	<b>\$715,511,880</b>	<b>12,473.63</b>	<b>\$57,361.96</b>

\* FTE Faculty indicates number of full-time equivalents for tenured and tenure-track faculty for fall of 2005.

\*\* A&M agency and research foundation expenditures reported by individual affiliated university.

\*\*\* FTE faculty for Texas A&M and Services is based on its Legislative Appropriations Request for FY 2006 and includes 197.8 FTEs from Texas Agricultural Experiment Station and 17.2 from Texas Engineering Experiment Station

Table 9

Expenditures for Conduct of R&D by Field, FY 2006						
Texas Universities						
Institution	Agricultural Sciences	Biological and Other Life Sciences	Computer Science	Engineering	Environmental Sciences	Mathematical Sciences
Midwestern State	\$0	\$67,146	\$0	\$0	\$0	\$0
Stephen F. Austin State	\$1,650,805	\$2,018,709	\$0	\$0	\$41,047	\$29,320
<b>Texas A&amp;M University System*</b>						
Prairie View A&M	\$5,692,507	\$336,654	\$89,389	\$3,714,559	\$0	\$111,740
Tarleton State	\$5,108,994	\$38,477	\$2,580	\$15	\$2,162,088	\$132,875
Texas A&M and Services	\$55,006,355	\$81,745,943	\$9,000,060	\$147,258,769	\$49,526,290	\$9,287,466
Texas A&M-Commerce	\$94,459	\$27,121	\$195,727	\$22,313	\$0	\$234,940
Texas A&M-Corpus Christi	\$7,699	\$394,659	\$494,188	\$241,019	\$5,607,679	\$1,822,652
Texas A&M at Galveston	\$0	\$445,586	\$0	\$172,852	\$4,147,903	\$0
Texas A&M International	\$0	\$20,959	\$0	\$0	\$82,666	\$0
Texas A&M-Kingsville	\$6,074,649	\$2,409,794	\$0	\$1,798,762	\$1,367,189	\$0
Texas A&M-Texarkana	\$0	\$0	\$0	\$0	\$0	\$0
West Texas A&M	\$2,629,744	\$194,724	\$0	\$1,068,079	\$319,189	\$0
Texas Southern	\$0	\$2,016,478	\$14,823	\$0	\$1,767	\$163,965
<b>Texas State University System</b>						
Angelo State	\$469,670	\$103,110	\$1,388	\$0	\$0	\$6,512
Lamar	\$0	\$6,791	\$17,128	\$1,946,392	\$767,862	\$0
Sam Houston State	\$86,080	\$494,625	\$46,897	\$0	\$669,584	\$230,506
Sul Ross State	\$427,260	\$157,837	\$0	\$0	\$1,089,377	\$0
Sul Ross - Rio Grande	\$0	\$0	\$0	\$0	\$0	\$0
Texas State - San Marcos	\$167,876	\$987,252	\$437,401	\$84,355	\$2,602,727	\$35,079
Texas Tech	\$15,382,489	\$3,912,155	\$1,143,413	\$12,429,653	\$5,717,327	\$513,239
Texas Woman's	\$0	\$1,069,584	\$0	\$0	\$0	\$26,470
<b>University of Texas System</b>						
UT at Arlington	\$0	\$978,259	\$2,078,008	\$16,569,691	\$316,605	\$406,522
UT at Austin	\$185,478	\$39,269,973	\$26,860,567	\$148,868,437	\$38,794,241	\$18,823,101
UT at Brownsville	\$53,243	\$596,755	\$248,980	\$30,000	\$54,055	\$0
UT at Dallas	\$0	\$4,163,798	\$6,398,866	\$14,414,150	\$654,411	\$127,177
UT at El Paso	\$0	\$5,201,727	\$1,799,705	\$5,117,444	\$3,439,830	\$359,609
UT-Pan American	\$27,906	\$474,964	\$188,036	\$2,036,900	\$134,021	\$93,237
UT of the Permian Basin	\$0	\$73,674	\$0	\$0	\$2,952	\$1,029
UT at San Antonio	\$0	\$15,125,898	\$774,036	\$2,915,287	\$1,140,186	\$51,053
UT at Tyler	\$5,000	\$165,196	\$230,348	\$136,276	\$0	\$19,489
<b>University of Houston System</b>						
Univ. of Houston	\$0	\$7,119,101	\$5,534,864	\$18,186,780	\$3,818,720	\$1,764,227
Univ. of Houston-Clear Lake	\$0	\$191,363	\$49,346	\$54,064	\$250,391	\$45,351
Univ. of Houston-Downtown	\$0	\$3,492	\$70,121	\$785	\$623	\$0
Univ. of Houston-Victoria	\$0	\$0	\$0	\$0	\$0	\$0
University of North Texas	\$53,699	\$2,635,823	\$409,385	\$5,128,091	\$1,168,614	\$206,922
<b>Independent Universities</b>						
Abilene Christian	\$5,380	\$5,267	\$0	\$0	\$0	\$0
Baylor Univ.	\$0	\$1,966,081	\$228,665	\$547,372	\$979,321	\$62,102
Rice	\$0	\$11,570,572	\$9,166,930	\$19,597,904	\$1,981,761	\$3,631,599
Southern Methodist	\$0	\$2,207,053	\$686,694	\$1,935,756	\$2,821,334	\$605,951
St. Mary's	\$0	\$0	\$0	\$0	\$0	\$0
Texas Christian	\$0	\$25,385	\$33,958	\$74,113	\$112,191	\$0
Trinity	\$0	\$433,483	\$0	\$14,052	\$22,026	\$100,008
<b>Totals</b>	<b>\$93,129,293</b>	<b>\$188,655,468</b>	<b>\$66,201,503</b>	<b>\$404,363,870</b>	<b>\$129,793,977</b>	<b>\$38,892,141</b>

Shading indicates the five highest in each category.

\* A&M agency and research foundation expenditures reported by individual affiliated university.

(table continued on next page)

Table 9 - continued

Expenditures for Conduct of R&D by Field, FY 2006					
Texas Universities					
Institution	Medical Sciences	Physical Sciences	Psychology	Social Sciences	Other Sciences
Midwestern State	\$0	\$0	\$0	\$0	\$0
Stephen F. Austin State	\$0	\$67,537	\$16,909	\$49,801	\$2,552,633
<b>Texas A&amp;M University System*</b>					
Prairie View A&M	\$19,687	\$1,165,095	\$1,626	\$0	\$0
Tarleton State	\$430	\$63,663	\$0	\$855	\$0
Texas A&M and Services	\$24,385,928	\$30,728,737	\$2,874,344	\$17,915,112	\$3,944,902
Texas A&M-Commerce	\$1,008	\$239,003	\$21,671	\$700	\$0
Texas A&M-Corpus Christi	\$2,273,349	\$436,795	\$36,188	\$144,214	\$447,329
Texas A&M at Galveston	\$0	\$71,263	\$0	\$9,681	\$0
Texas A&M International	\$0	\$0	\$0	\$0	\$11,898
Texas A&M-Kingsville	\$0	\$250,444	\$0	\$0	\$82,302
Texas A&M-Texarkana	\$0	\$0	\$0	\$0	\$0
West Texas A&M	\$4,861	\$230,969	\$0	\$71,937	\$3,717
Texas Southern	\$0	\$2,070,402	\$0	\$0	\$31,734
<b>Texas State University System</b>					
Angelo State	\$59,951	\$17,669	\$20,174	\$0	\$0
Lamar	\$0	\$88,531	\$4,411	\$0	\$0
Sam Houston State	\$0	\$129,149	\$0	\$19,852	\$281,126
Sul Ross State	\$0	\$0	\$0	\$914,129	\$0
Sul Ross - Rio Grande	\$0	\$0	\$0	\$0	\$0
Texas State - San Marcos	\$362,436	\$1,915,014	\$5,758	\$139,673	\$296,889
Texas Tech	\$0	\$5,474,706	\$534,562	\$4,359,127	\$0
Texas Woman's	\$424,181	\$84,707	\$12,952	\$6,940	\$350,638
<b>University of Texas System</b>					
UT at Arlington	\$475,709	\$6,057,180	\$1,432,569	\$556,759	\$0
UT at Austin	\$16,252,694	\$66,011,896	\$8,760,724	\$21,236,014	\$2,783,452
UT at Brownsville	\$2,599,700	\$1,779,512	\$64,134	\$37,706	\$366,976
UT at Dallas	\$1,053,772	\$8,894,309	\$3,561,165	\$1,748,624	\$592,398
UT at El Paso	\$5,769,875	\$1,271,737	\$1,102,055	\$841,267	\$3,785,853
UT-Pan American	\$1,505,301	\$102,201	\$250,596	\$192,944	\$0
UT of the Permian Basin	\$0	\$1,412,752	\$2,000	\$0	\$97,442
UT at San Antonio	\$0	\$2,780,739	\$195,247	\$417,580	\$2,798,162
UT at Tyler	\$139,413	\$35,858	\$18,219	\$45,463	\$233
<b>University of Houston System</b>					
Univ. of Houston	\$8,004,915	\$9,045,090	\$10,768,483	\$1,156,567	\$2,400,008
Univ. of Houston-Clear Lake	\$0	\$136,233	\$34,705	\$7,347	\$0
Univ. of Houston-Downtown	\$0	\$243,759	\$0	\$6,675	\$74,014
Univ. of Houston-Victoria	\$0	\$0	\$0	\$0	\$0
University of North Texas	\$19,819	\$2,505,857	\$208,427	\$1,284,249	\$0
<b>Independent Universities</b>					
Abilene Christian	\$0	\$257,529	\$4,800	\$0	\$0
Baylor Univ.	\$0	\$1,340,145	\$247,625	\$169,369	\$0
Rice	\$0	\$15,003,230	\$748,668	\$584,175	\$0
Southern Methodist	\$0	\$2,086,713	\$1,215,225	\$586,850	\$329,258
St. Mary's	\$0	\$0	\$0	\$0	\$0
Texas Christian	\$269,437	\$1,155,690	\$2,392,597	\$158,206	\$23,290
Trinity	\$0	\$561,523	\$70,553	\$4,722	\$0
<b>Totals</b>	<b>\$63,622,466</b>	<b>\$163,715,637</b>	<b>\$34,606,387</b>	<b>\$52,666,538</b>	<b>\$21,254,254</b>

Shading indicates the five highest in each category.

\* A&M agency and research foundation expenditures reported by individual affiliated university.

(table continued on next page)

Table 9 - continued

Expenditures for Conduct of R&D by Field, FY 2006						
Texas Universities						
Institution	Arts and Humanities	Business Administration	Education	Law and Public Administration	Other Non-Sciences	Total
Midwestern State	\$0	\$0	\$0	\$0	\$0	\$67,146
Stephen F. Austin State	\$82,301	\$17,660	\$57,576	\$0	\$265,052	\$6,849,350
<b>Texas A&amp;M University System*</b>						
Prairie View A&M	\$46,430	\$4,044	\$71,073	\$0	\$0	\$11,252,804
Tarleton State	\$21,814	\$13,972	\$127,790	\$0	\$1,847,980	\$9,521,533
Texas A&M and Services	\$291,845	\$2,799,052	\$11,246,158	\$24,451	\$76,692	\$446,112,104
Texas A&M-Commerce	\$17,495	\$892	\$245,682	\$558	\$80,598	\$1,182,167
Texas A&M-Corpus Christi	\$45,275	\$12,883	\$972,763	\$0	\$770,785	\$13,707,477
Texas A&M at Galveston	\$2,559	\$0	\$0	\$10,763	\$28,825	\$4,889,432
Texas A&M International	\$15,079	\$3,175	\$92,679	\$9,835	\$542	\$236,833
Texas A&M-Kingsville	\$0	\$0	\$50,356	\$0	\$400,831	\$12,434,327
Texas A&M-Texarkana	\$0	\$0	\$56,690	\$0	\$0	\$56,690
West Texas A&M	\$0	\$933,137	\$204,775	\$0	\$154,543	\$5,815,675
Texas Southern	\$0	\$8,000	\$378,342	\$0	\$608,497	\$5,294,008
<b>Texas State University System</b>						
Angelo State	\$2,034	\$624	\$43,837	\$8,917	\$18,623	\$752,509
Lamar	\$0	\$0	\$1,183	\$0	\$445,208	\$3,277,506
Sam Houston State	\$54,227	\$7,340	\$95,804	\$15,278	\$1,012,469	\$3,142,937
Sul Ross State	\$0	\$0	\$0	\$0	\$0	\$2,588,603
Sul Ross - Rio Grande	\$3,270	\$0	\$139	\$0	\$0	\$3,409
Texas State - San Marcos	\$198,463	\$26,202	\$453,178	\$287,020	\$1,498,222	\$9,497,545
Texas Tech	\$74,130	\$555,656	\$1,007,282	\$57,165	\$0	\$51,160,904
Texas Woman's	\$0	\$11,408	\$27,967	\$0	\$63,889	\$2,078,736
<b>University of Texas System</b>						
UT at Arlington	\$132,738	\$130,497	\$102,894	\$269,927	\$5,357,710	\$34,865,068
UT at Austin	\$3,572,527	\$4,300,834	\$29,070,287	\$1,310,527	\$20,585,851	\$446,686,603
UT at Brownsville	\$0	\$0	\$34,268	\$0	\$25,115	\$5,890,444
UT at Dallas	\$406,485	\$1,055,869	\$14,212	\$0	\$0	\$43,085,236
UT at El Paso	\$104,548	\$5,349	\$6,967,946	\$559,849	\$5,606,388	\$41,933,182
UT-Pan American	\$128,593	\$16,741	\$1,148,326	\$490,826	\$0	\$6,790,592
UT of the Permian Basin	\$18,398	\$338,016	\$287,118	\$0	\$144,275	\$2,377,656
UT at San Antonio	\$1,435,970	\$616,745	\$1,515,283	\$2,550,663	\$0	\$32,316,849
UT at Tyler	\$0	\$4,741	\$61,421	\$0	\$53,367	\$915,024
<b>University of Houston System</b>						
Univ. of Houston	\$423,494	\$54,946	\$4,416,595	\$240,315	\$2,935,892	\$75,869,997
Univ. of Houston-Clear Lake	\$6,119	\$78,087	\$15,687	\$0	\$345,284	\$1,213,977
Univ. of Houston-Downtown	\$0	\$0	\$160	\$0	\$109,489	\$509,118
Univ. of Houston-Victoria	\$0	\$0	\$0	\$0	\$0	\$0
University of North Texas	\$301,388	\$1,711,925	\$458,386	\$284,916	\$0	\$16,377,501
<b>Independent Universities</b>						
Abilene Christian	\$8,776	\$20,500	\$9,198	\$0	\$18,096	\$329,546
Baylor Univ.	\$1,089,289	\$60,617	\$66,200	\$0	\$517,351	\$7,274,137
Rice	\$834,243	\$175,373	\$49,916	\$0	\$66,157	\$63,410,528
Southern Methodist	\$129,316	\$162,898	\$2,302,595	\$654,155	\$99,388	\$15,823,186
St. Mary's	\$0	\$0	\$0	\$0	\$183,000	\$183,000
Texas Christian	\$155,844	\$3,861	\$1,159,866	\$0	\$3,665,523	\$9,229,961
Trinity	\$25,925	\$0	\$0	\$0	\$0	\$1,232,292
<b>Totals</b>	<b>\$9,628,575</b>	<b>\$13,131,044</b>	<b>\$62,813,632</b>	<b>\$6,775,165</b>	<b>\$46,985,642</b>	<b>\$1,396,235,592</b>

Shading indicates the five highest in each category.

\* A&M agency and research foundation expenditures reported by individual affiliated university.

Table 10

Expenditures for Conduct of R&D by Area of Special Interest, FY 2006 Texas Universities					
Institution	Aerospace Technology	Biotechnology	Energy	Environmental Sciences	Food, Fiber, Agricultural Products
Midwestern State	\$0	\$0	\$0	\$0	\$0
Stephen F. Austin State	\$0	\$1,111,498	\$0	\$4,289,704	\$1,565,825
<b>Texas A&amp;M University System*</b>					
Prairie View A&M	\$0	\$0	\$0	\$0	\$71,065
Tarleton State	\$0	\$0	\$0	\$63,618	\$3,612,694
Texas A&M and Services	\$2,464,386	\$52,428,735	\$3,803,181	\$8,105,912	\$62,298,749
Texas A&M-Commerce	\$0	\$0	\$0	\$0	\$94,457
Texas A&M-Corpus Christi	\$127,180	\$82,117	\$0	\$2,715,669	\$7,699
Texas A&M at Galveston	\$0	\$0	\$0	\$1,139,569	\$0
Texas A&M International	\$0	\$0	\$0	\$4,526	\$0
Texas A&M-Kingsville	\$0	\$2,280,933	\$39,785	\$1,085,631	\$1,605,964
Texas A&M-TeXarkana	\$0	\$0	\$0	\$0	\$0
West Texas A&M	\$0	\$50,770	\$298,118	\$537,512	\$1,934,279
Texas Southern	\$0	\$0	\$0	\$1,767	\$0
<b>Texas State University System</b>					
Angelo State	\$0	\$0	\$0	\$0	\$449,922
Lamar	\$0	\$0	\$9,334	\$1,231,282	\$0
Sam Houston State	\$0	\$0	\$0	\$10,342	\$0
Sul Ross State	\$0	\$0	\$0	\$45,007	\$0
Sul Ross - Rio Grande	\$0	\$0	\$0	\$0	\$0
Texas State - San Marcos	\$0	\$891,603	\$0	\$1,119,928	\$167,876
Texas Tech	\$1,418,218	\$4,733,781	\$3,123,062	\$7,807,900	\$14,876,829
Texas Woman's	\$0	\$0	\$0	\$0	\$304,470
<b>University of Texas System</b>					
UT at Arlington	\$548,295	\$1,839,643	\$3,561,331	\$1,341,118	\$0
UT at Austin	\$10,220,164	\$21,332,533	\$36,211,815	\$39,868,829	\$314,597
UT at Brownsville	\$1,586,729	\$3,194,143	\$38,516	\$0	\$0
UT at Dallas	\$185,974	\$351,849	\$0	\$510,547	\$0
UT at El Paso	\$0	\$0	\$23,612	\$1,637,668	\$0
UT-Pan American	\$0	\$0	\$0	\$134,021	\$27,906
UT of the Permian Basin	\$0	\$66,148	\$270,188	\$9	\$0
UT at San Antonio	\$0	\$1,349,740	\$0	\$1,140,186	\$0
UT at Tyler	\$0	\$0	\$0	\$0	\$0
<b>University of Houston System</b>					
Univ. of Houston	\$1,861,143	\$2,319,951	\$2,329,485	\$1,656,322	\$0
Univ. of Houston-Clear Lake	\$85,703	\$0	\$0	\$250,391	\$0
Univ. of Houston-Downtown	\$0	\$33,764	\$0	\$0	\$0
Univ. of Houston-Victoria	\$0	\$0	\$0	\$0	\$0
University of North Texas	\$924	\$307,310	\$93,939	\$1,000,725	\$63,657
<b>Independent Universities</b>					
Abilene Christian	\$0	\$0	\$230,914	\$0	\$0
Baylor Univ.	\$0	\$0	\$0	\$431,493	\$0
Rice	\$190,091	\$11,349,108	\$666,646	\$3,848,477	\$0
Southern Methodist	\$0	\$0	\$0	\$0	\$0
St. Mary's	\$0	\$183,000	\$0	\$0	\$0
Texas Christian	\$0	\$0	\$0	\$0	\$0
Trinity	\$0	\$168,377	\$2,256	\$0	\$0
<b>Totals</b>	<b>\$18,688,807</b>	<b>\$104,075,003</b>	<b>\$50,702,182</b>	<b>\$79,978,153</b>	<b>\$87,395,989</b>

Shading indicates the five highest in each category.

\* A&M agency and research foundation expenditures reported by individual affiliated university.

(table continued on next page)

Table 10 - continued

Expenditures for Conduct of R&D by Area of Special Interest, FY 2006 Texas Universities					
Institution	Manufacturing Technology	Materials Science	Microelectronics and Computer Technology	Water Resources	Total
Midwestern State	\$0	\$0	\$0	\$0	\$0
Stephen F. Austin State	\$0	\$0	\$0	\$3,892,273	\$10,859,300
<b>Texas A&amp;M University System*</b>					
Prairie View A&M	\$0	\$0	\$0	\$0	\$71,065
Tarleton State	\$0	\$0	\$0	\$978,629	\$4,654,941
Texas A&M and Services	\$3,217,117	\$7,757,050	\$8,817,664	\$6,189,054	\$155,081,848
Texas A&M-Commerce	\$22,313	\$57,142	\$244,300	\$0	\$418,212
Texas A&M-Corpus Christi	\$0	\$0	\$1,774,479	\$646,097	\$5,353,241
Texas A&M at Galveston	\$0	\$0	\$0	\$0	\$1,139,569
Texas A&M International	\$0	\$0	\$0	\$0	\$4,526
Texas A&M-Kingsville	\$0	\$9,161	\$0	\$0	\$5,021,474
Texas A&M-Texarkana	\$0	\$0	\$0	\$0	\$0
West Texas A&M	\$0	\$48,917	\$0	\$88,116	\$2,957,712
Texas Southern	\$0	\$172,459	\$0	\$0	\$174,226
<b>Texas State University System</b>					
Angelo State	\$0	\$0	\$0	\$49,115	\$499,037
Lamar	\$948,449	\$0	\$29,538	\$170,135	\$2,388,738
Sam Houston State	\$0	\$0	\$63,709	\$652,114	\$726,165
Sul Ross State	\$0	\$0	\$0	\$0	\$45,007
Sul Ross - Rio Grande	\$0	\$0	\$0	\$0	\$0
Texas State - San Marcos	\$0	\$1,915,014	\$437,398	\$1,506,589	\$6,038,408
Texas Tech	\$1,309,107	\$3,103,396	\$1,846,369	\$3,093,172	\$41,311,834
Texas Woman's	\$0	\$0	\$0	\$0	\$304,470
<b>University of Texas System</b>					
UT at Arlington	\$4,149,358	\$2,702,090	\$4,147,073	\$300,678	\$18,589,586
UT at Austin	\$925,238	\$15,786,110	\$36,495,159	\$2,544,833	\$163,699,278
UT at Brownsville	\$0	\$0	\$0	\$13,134	\$4,832,522
UT at Dallas	\$0	\$1,012,365	\$974,933	\$0	\$3,035,668
UT at El Paso	\$506,349	\$383,708	\$32,159	\$134,659	\$2,718,155
UT-Pan American	\$674,619	\$0	\$188,036	\$0	\$1,024,582
UT of the Permian Basin	\$0	\$0	\$0	\$0	\$336,345
UT at San Antonio	\$0	\$457,272	\$774,036	\$165,554	\$3,886,788
UT at Tyler	\$0	\$0	\$0	\$0	\$0
<b>University of Houston System</b>					
Univ. of Houston	\$676,410	\$3,865,673	\$4,823,435	\$932	\$17,533,351
Univ. of Houston-Clear Lake	\$0	\$0	\$103,409	\$0	\$439,503
Univ. of Houston-Downtown	\$0	\$0	\$11,957	\$0	\$45,721
Univ. of Houston-Victoria	\$0	\$0	\$0	\$0	\$0
University of North Texas	\$106,520	\$4,462,263	\$1,172,146	\$209,194	\$7,416,678
<b>Independent Universities</b>					
Abilene Christian	\$0	\$0	\$0	\$0	\$230,914
Baylor Univ.	\$0	\$332,194	\$0	\$583,431	\$1,347,118
Rice	\$0	\$2,177,878	\$12,150,412	\$0	\$30,382,612
Southern Methodist	\$0	\$0	\$0	\$0	\$0
St. Mary's	\$0	\$0	\$0	\$0	\$183,000
Texas Christian	\$0	\$0	\$0	\$0	\$0
Trinity	\$0	\$0	\$0	\$0	\$170,633
<b>Totals</b>	<b>\$12,535,480</b>	<b>\$44,242,692</b>	<b>\$74,086,212</b>	<b>\$21,217,709</b>	<b>\$492,922,227</b>

Shading indicates the five highest in each category.

\* A&M agency and research foundation expenditures reported by individual affiliated university.

## INSTITUTIONAL DATA – HEALTH-RELATED INSTITUTIONS

This section of the report contains detailed information on research expenses reported by individual health-related institutions. Nine of Texas' 10 health-related institutions are public institutions. The sole independent higher education health-related institution is Baylor College of Medicine. Statements related to data quality and applicability found on page 1 of this report also apply to the data shown in this section of the report.

**Figure 7**

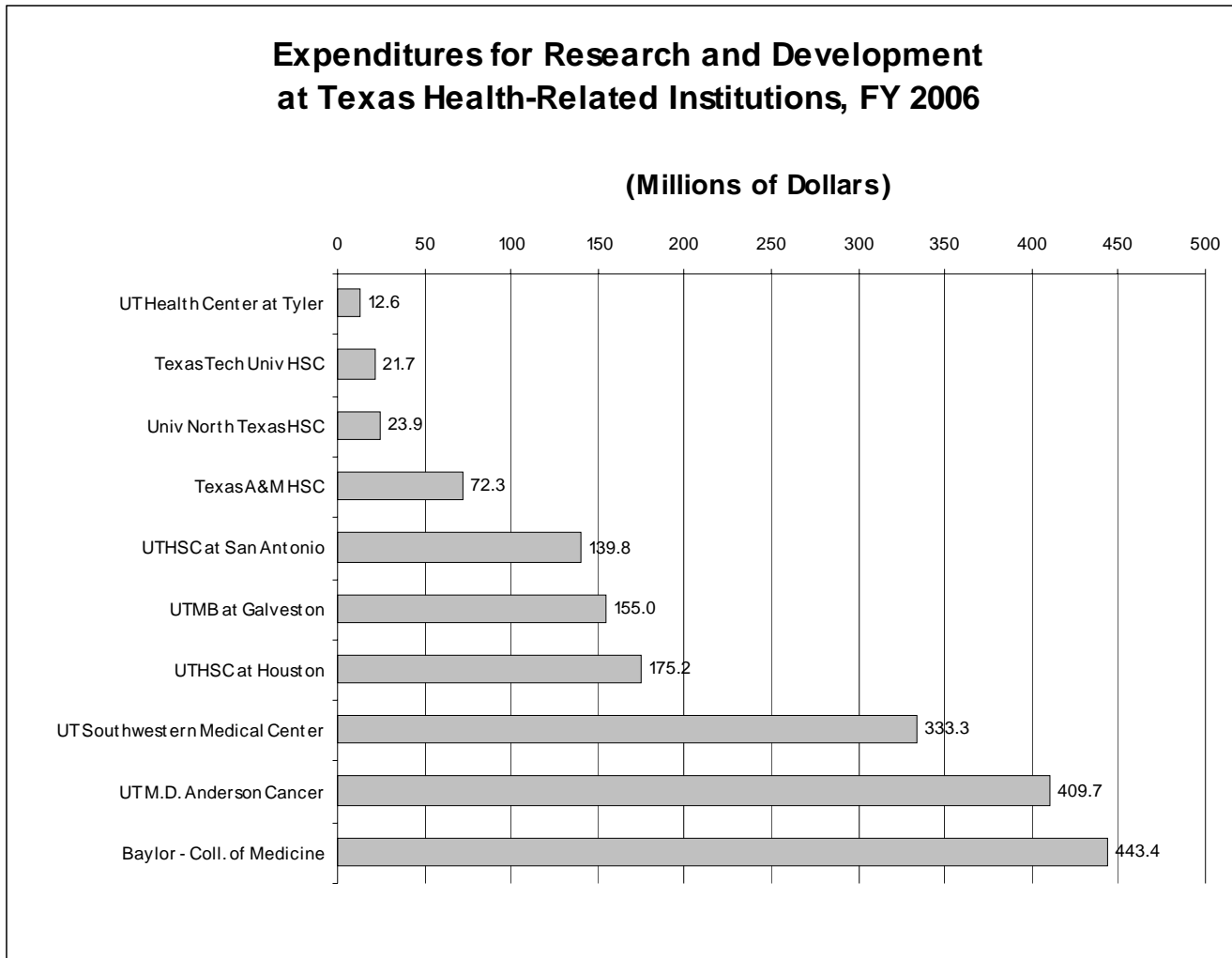


Table 11

Total Expenditures for Research and Other Research-Related Sponsored Programs by Source of Funds, Texas Health-Related Institutions, FY 2006						
Institution	Federal		State			
	R&D	Other	Appropriated		Contracts and Grants	
			R&D	Other	R&D	Other
Baylor - Coll. of Medicine	\$287,678,891	\$0	\$3,219,928	\$0	\$3,376,574	\$0
Texas A&M HSC	\$35,213,635	\$0	\$12,759,940	\$0	\$1,502,389	\$0
Texas Tech Univ HSC	\$9,712,580	\$0	\$6,878,470	\$0	\$317,486	\$0
Univ North Texas HSC	\$19,183,193	\$37,207	\$0	\$0	\$98,503	\$0
UT M.D. Anderson Cancer	\$182,028,411	\$0	\$121,681,394	\$0	\$932	\$0
UTMB at Galveston	\$120,407,805	\$0	\$10,527,417	\$0	\$881,862	\$0
UTHSC at Houston	\$122,870,079	\$0	\$11,398,537	\$0	\$14,526,287	\$0
UT Health Center at Tyler	\$6,512,656	\$0	\$2,474,104	\$0	\$0	\$0
UTHSC at San Antonio	\$95,110,395	\$0	\$7,335,908	\$0	\$357,963	\$0
UT Southwestern Medical Center	\$196,622,021	\$2,732,112	\$32,815,024	\$0	\$1,124,509	\$0
<b>Totals</b>	<b>\$1,075,339,666</b>	<b>\$2,769,319</b>	<b>\$209,090,722</b>	<b>\$0</b>	<b>\$22,186,505</b>	<b>\$0</b>

Shading indicates the five highest in each category.

Table 11 - continued

Total Expenditures for Research and Other Research-Related Sponsored Programs by Source of Funds, Texas Health-Related Institutions, FY 2006						
Institution	Institution		Private, Profit		Private, Non-Profit	
	R&D	Other	R&D	Other	R&D	Other
Baylor - Coll. of Medicine	\$109,300,909	\$0	\$16,465,458	\$0	\$23,323,896	\$0
Texas A&M HSC	\$8,888,144	\$0	\$5,466,985	\$0	\$8,495,466	\$0
Texas Tech Univ HSC	\$1,860,477	\$0	\$1,115,624	\$0	\$1,780,459	\$0
Univ North Texas HSC	\$1,209,528	\$2,437,572	\$1,401,233	\$5,048	\$1,975,097	\$17,159
UT M.D. Anderson Cancer	\$28,269,580	\$0	\$28,020,075	\$0	\$49,679,319	\$0
UTMB at Galveston	\$1,097,254	\$0	\$5,870,368	\$0	\$16,251,496	\$0
UTHSC at Houston	\$1,682,391	\$0	\$8,624,632	\$0	\$16,051,882	\$0
UT Health Center at Tyler	\$2,020,783	\$0	\$365,700	\$0	\$1,225,628	\$0
UTHSC at San Antonio	\$11,495,433	\$0	\$16,343,210	\$0	\$9,135,823	\$0
UT Southwestern Medical Center	\$13,766,930	\$852,519	\$15,073,064	\$0	\$73,854,614	\$0
<b>Totals</b>	<b>\$179,591,429</b>	<b>\$3,290,091</b>	<b>\$98,746,349</b>	<b>\$5,048</b>	<b>\$201,773,680</b>	<b>\$17,159</b>

Shading indicates the five highest in each category.

Table 11 - continued

Total Expenditures for Research and Other Research-Related Sponsored Programs by Source of Funds, Texas Health-Related Institutions, FY 2006			
Institution	Total		
	R&D	Other	Total
Baylor - Coll. of Medicine	\$443,365,656	\$0	\$443,365,656
Texas A&M HSC	\$72,326,559	\$0	\$72,326,559
Texas Tech Univ HSC	\$21,665,096	\$0	\$21,665,096
Univ North Texas HSC	\$23,867,554	\$2,496,986	\$26,364,540
UT M.D. Anderson Cancer	\$409,679,711	\$0	\$409,679,711
UTMB at Galveston	\$155,036,202	\$0	\$155,036,202
UTHSC at Houston	\$175,153,808	\$0	\$175,153,808
UT Health Center at Tyler	\$12,598,871	\$0	\$12,598,871
UTHSC at San Antonio	\$139,778,732	\$0	\$139,778,732
UT Southwestern Medical Center	\$333,256,162	\$3,584,631	\$336,840,793
<b>Totals</b>	<b>\$1,786,728,351</b>	<b>\$6,081,617</b>	<b>\$1,792,809,968</b>

Shading indicates the five highest in each category.



**Table 12**

<b>Expenditures for Conduct of R&amp;D by Field, FY 2006</b>					
<b>Texas Health-Related Institutions</b>					
<b>Institution</b>	<b>Agricultural Sciences</b>	<b>Biological and Other Life Sciences</b>	<b>Engineering</b>	<b>Environmental Sciences</b>	<b>Mathematical Sciences</b>
Baylor - Coll. of Medicine	\$0	\$215,872,800	\$0	\$0	\$0
Texas A&M HSC	\$6,761	\$65,931	\$761,888	\$1,056,243	\$0
Texas Tech Univ HSC	\$0	\$10,696,292	\$0	\$0	\$0
Univ North Texas HSC	\$0	\$18,645,657	\$0	\$0	\$0
UT M.D. Anderson Cancer	\$0	\$135,112,964	\$3,088,752	\$0	\$19,400,213
UTMB at Galveston	\$0	\$59,730,903	\$2,201,321	\$0	\$0
UTHSC at Houston	\$0	\$27,953,469	\$0	\$0	\$0
UT Health Center at Tyler	\$1,121,683	\$0	\$0	\$39,977	\$0
UTHSC at San Antonio	\$0	\$0	\$0	\$0	\$0
UT Southwestern Medical Center	\$0	\$163,647,092	\$0	\$0	\$0
<b>Totals</b>	<b>\$1,128,444</b>	<b>\$631,725,108</b>	<b>\$6,051,961</b>	<b>\$1,096,220</b>	<b>\$19,400,213</b>

Shading indicates the five highest in each category.

**Table 12 - continued**

<b>Expenditures for Conduct of R&amp;D by Field, FY 2006</b>						
<b>Texas Health-Related Institutions</b>						
<b>Institution</b>	<b>Medical Sciences</b>	<b>Physical Sciences</b>	<b>Psychology</b>	<b>Social Sciences</b>	<b>Other Sciences</b>	<b>Total</b>
Baylor - Coll. of Medicine	\$227,492,856	\$0	\$0	\$0	\$0	\$443,365,656
Texas A&M HSC	\$70,298,056	\$138	\$71,952	\$65,590	\$0	\$72,326,559
Texas Tech Univ HSC	\$10,968,804	\$0	\$0	\$0	\$0	\$21,665,096
Univ North Texas HSC	\$5,221,897	\$0	\$0	\$0	\$0	\$23,867,554
UT M.D. Anderson Cancer	\$225,145,378	\$9,664,389	\$12,201,058	\$5,066,957	\$0	\$409,679,711
UTMB at Galveston	\$93,103,978	\$0	\$0	\$0	\$0	\$155,036,202
UTHSC at Houston	\$147,200,339	\$0	\$0	\$0	\$0	\$175,153,808
UT Health Center at Tyler	\$11,437,211	\$0	\$0	\$0	\$0	\$12,598,871
UTHSC at San Antonio	\$139,778,732	\$0	\$0	\$0	\$0	\$139,778,732
UT Southwestern Medical Center	\$167,919,833	\$0	\$0	\$0	\$1,689,237	\$333,256,162
<b>Totals</b>	<b>\$1,098,567,084</b>	<b>\$9,664,527</b>	<b>\$12,273,010</b>	<b>\$5,132,547</b>	<b>\$1,689,237</b>	<b>\$1,786,728,351</b>

Shading indicates the five highest in each category.

**Table 13**

<b>Expenditures for Research and Development by Area of Special Interest, FY 2006 Texas Public Health-Related Institutions</b>				
Institution	Aging	Cancer Research	Cardiovascular Research	Child Health and Human Development
Baylor - Coll. of Medicine	\$10,205,359	\$72,379,542	\$40,964,435	\$70,235,786
Texas A&M HSC	\$1,182,024	\$5,518,471	\$8,460,212	\$6,125,751
Texas Tech Univ HSC	\$2,530,483	\$5,589,151	\$2,253,889	\$2,810,278
Univ North Texas HSC	\$5,245,069	\$1,322,772	\$2,794,188	\$0
UT M.D. Anderson Cancer	\$0	\$409,679,711	\$0	\$0
UTMB at Galveston	\$13,490,725	\$9,641,120	\$4,711,382	\$9,568,428
UTHSC at Houston	\$1,362,636	\$4,012,764	\$15,460,866	\$14,779,326
UT Health Center at Tyler	\$0	\$176,937	\$0	\$0
UTHSC at San Antonio	\$15,932,875	\$17,227,670	\$13,646,851	\$8,474,704
UT Southwestern Medical Center	\$6,333,753	\$31,471,255	\$38,319,859	\$8,897,869
<b>Totals</b>	<b>\$56,282,924</b>	<b>\$557,019,393</b>	<b>\$126,611,682</b>	<b>\$120,892,142</b>

Shading indicates the five highest in each category.

**Table 13 - continued**

<b>Expenditures for Research and Development by Area of Special Interest, FY 2006 Texas Public Health-Related Institutions</b>			
Institution	Mental Health	Substance Abuse	Total
Baylor - Coll. of Medicine	\$22,209,490	\$6,117,248	\$222,111,860
Texas A&M HSC	\$386,498	\$1,650,394	\$23,323,350
Texas Tech Univ HSC	\$1,053,885	\$1,452,337	\$15,690,023
Univ North Texas HSC	\$1,400,723	\$1,122,068	\$11,884,820
UT M.D. Anderson Cancer	\$0	\$0	\$409,679,711
UTMB at Galveston	\$7,760,831	\$2,190,985	\$47,363,471
UTHSC at Houston	\$7,359,581	\$7,200,167	\$50,175,340
UT Health Center at Tyler	\$0	\$0	\$176,937
UTHSC at San Antonio	\$10,669,032	\$5,550,243	\$71,501,375
UT Southwestern Medical Center	\$14,261,939	\$6,641,720	\$105,926,395
<b>Totals</b>	<b>\$65,101,979</b>	<b>\$31,925,162</b>	<b>\$957,833,282</b>

Shading indicates the five highest in each category.

## HISTORICAL DATA FOR PUBLIC INSTITUTIONS

Figure 8 graphs total research and development expenditures since 1986. The accelerated growth in research expenditures for the public health-related institutions from 1999 to 2003 resulted primarily from the doubling of the National Institutes of Health budget, a major source of research funding.

**Figure 8**

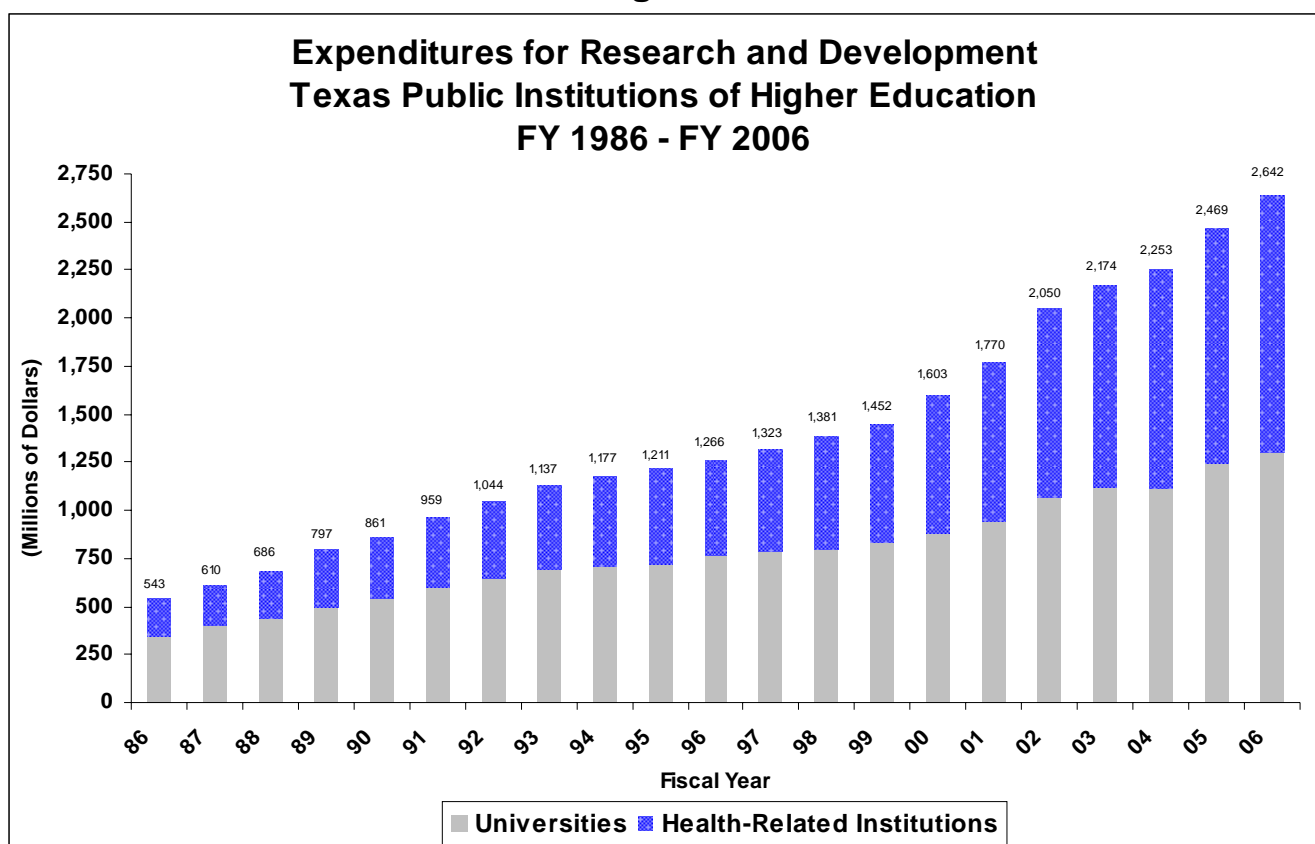


Table 14 on the following page shows total research and development expenditures at Texas public universities over the past four years. Table 15 shows federal research and development expenditures and the ratio of federal-to-state research and development expenditures over the past four years. Tables 16 and 17 show similar data for health-related institutions. One-year and five-year changes in federal expenditures for research and development for the different disciplines are shown in Table 18.

Table 14

Expenditures for Research and Development Texas Public Universities					
Institution	FY 2003	FY 2004	FY 2005	FY 2006	Percent Change*
Midwestern State	\$85,760	\$119,653	\$87,980	\$67,146	-21.70%
Stephen F. Austin State	\$5,491,566	\$3,639,457	\$4,302,941	\$6,849,350	24.72%
<b>Texas A&amp;M University System</b>					
Prairie View A&M	\$10,682,633	\$10,697,128	\$10,919,521	\$11,252,804	5.34%
Tarleton State	\$8,229,694	\$8,579,202	\$9,903,767	\$9,521,533	15.70%
Texas A&M and Services	\$390,305,058	\$390,654,670	\$434,864,259	\$446,112,104	14.30%
Texas A&M-Commerce	\$520,321	\$609,864	\$1,098,153	\$1,182,167	127.20%
Texas A&M-Corpus Christi	\$12,110,618	\$13,682,911	\$12,073,070	\$13,707,477	13.19%
Texas A&M at Galveston	\$4,949,454	\$4,537,645	\$5,305,098	\$4,889,432	-1.21%
Texas A&M International	\$570,457	\$185,137	\$250,332	\$236,833	-58.48%
Texas A&M-Kingsville	\$10,148,177	\$10,536,809	\$12,626,504	\$12,434,327	22.53%
Texas A&M-Texarkana	\$116,913	\$188,653	\$199,617	\$56,690	-51.51%
West Texas A&M	\$6,221,085	\$5,503,151	\$4,572,604	\$5,815,675	-6.52%
Texas Southern	\$3,872,628	\$4,647,980	\$5,088,035	\$5,294,008	36.70%
<b>Texas State University System</b>					
Angelo State	\$699,836	\$885,426	\$714,754	\$752,509	7.53%
Lamar	\$3,958,697	\$3,210,250	\$3,375,467	\$3,277,506	-17.21%
Sam Houston State	\$1,829,162	\$2,858,129	\$3,176,943	\$3,142,937	71.82%
Sul Ross State	\$816,917	\$1,058,664	\$2,376,399	\$2,588,603	216.87%
Sul Ross - Rio Grande	\$21,610	\$3,506	\$0	\$3,409	-84.22%
Texas State - San Marcos	\$9,112,931	\$9,129,998	\$8,897,766	\$9,497,545	4.22%
Texas Tech	\$56,147,235	\$48,142,661	\$48,462,797	\$51,160,904	-8.88%
Texas Woman's	\$2,998,340	\$2,233,085	\$1,927,385	\$2,078,736	-30.67%
<b>University of Texas System</b>					
UT at Arlington	\$23,314,938	\$22,417,130	\$33,826,960	\$34,865,068	49.54%
UT at Austin	\$376,403,651	\$382,391,771	\$422,867,712	\$446,686,603	18.67%
UT at Brownsville	\$1,558,306	\$3,273,326	\$5,374,665	\$5,890,444	278.00%
UT at Dallas	\$32,547,141	\$31,274,590	\$43,110,799	\$43,085,236	32.38%
UT at El Paso	\$27,847,152	\$32,067,735	\$36,013,585	\$41,933,182	50.58%
UT-Pan American	\$3,193,419	\$4,309,262	\$5,816,164	\$6,790,592	112.64%
UT of the Permian Basin	\$1,118,184	\$1,895,564	\$1,160,694	\$2,377,656	112.64%
UT at San Antonio	\$14,547,732	\$16,516,457	\$23,605,844	\$32,316,849	122.14%
UT at Tyler	\$411,275	\$894,034	\$501,301	\$915,024	122.48%
<b>University of Houston System</b>					
Univ. of Houston	\$88,608,021	\$75,927,432	\$81,453,186	\$75,869,997	-14.38%
Univ. of Houston-Clear Lake	\$1,707,440	\$1,211,307	\$1,367,443	\$1,213,977	-28.90%
Univ. of Houston-Downtown	\$678,068	\$669,019	\$563,252	\$509,118	-24.92%
Univ. of Houston-Victoria	\$0	\$0	\$4,443	\$0	NA
University of North Texas	\$17,587,767	\$15,636,344	\$16,801,061	\$16,377,501	-6.88%
<b>Totals</b>	<b>\$1,118,412,186</b>	<b>\$1,109,587,950</b>	<b>\$1,242,690,501</b>	<b>\$1,298,752,942</b>	<b>16.12%</b>

\* Percent change for 2006, relative to 2003; NA indicates not applicable

Table 15

Federal Expenditures for Research and Development Texas Public Universities								
Institution	FY 2003		FY 2004		FY 2005		FY 2006	
	Federal R&D Dollars	Fed/State Ratio	Federal R&D Dollars	Fed/State Ratio	Federal R&D Dollars	Fed/State Ratio	Federal R&D Dollars	Fed/State Ratio
Midwestern State	\$20,865	0.45	\$77,388	343.95	\$46,493	NA	\$0	NA
Stephen F. Austin State	\$1,208,382	14.51	\$1,025,461	6.47	\$1,076,097	3.52	\$3,739,260	2.78
<b>Texas A&amp;M University System</b>								
Prairie View A&M	\$8,106,963	3.53	\$8,138,054	3.56	\$8,670,785	4.56	\$9,067,524	5.26
Tarleton State	\$5,856,670	2.72	\$5,439,350	1.96	\$6,248,440	1.83	\$5,487,270	1.54
Texas A&M and Services	\$178,016,320	1.48	\$174,570,204	1.53	\$212,918,255	1.76	\$200,756,607	1.56
Texas A&M-Commerce	\$198,275	1.17	\$355,709	3.08	\$424,070	0.80	\$303,856	0.55
Texas A&M-Corpus Christi	\$5,667,854	1.27	\$6,233,432	1.53	\$5,059,684	1.38	\$7,970,993	2.63
Texas A&M at Galveston	\$3,128,730	2.82	\$2,757,465	4.47	\$3,000,732	2.77	\$2,974,076	2.99
Texas A&M International	\$486,102	46.53	\$119,762	7.05	\$190,209	7.15	\$193,353	10.62
Texas A&M-Kingsville	\$2,766,449	0.62	\$3,856,738	0.96	\$5,028,940	1.34	\$4,624,586	2.39
Texas A&M-Texarkana	\$113,290	NA	\$188,653	NA	\$199,617	NA	\$56,690	NA
West Texas A&M	\$3,190,176	1.29	\$2,580,645	0.97	\$1,968,369	0.94	\$2,693,769	1.15
Texas Southern	\$3,247,658	6.63	\$3,969,899	11.20	\$4,650,459	18.20	\$4,797,144	12.22
<b>Texas State University System</b>								
Angelo State	\$131,977	0.25	\$155,851	0.33	\$127,653	0.26	\$109,084	0.19
Lamar	\$1,998,033	1.26	\$1,504,062	1.02	\$1,259,293	0.65	\$1,785,278	1.27
Sam Houston State	\$1,397,106	4.26	\$2,175,912	7.27	\$1,155,080	2.65	\$1,118,465	1.50
Sul Ross State	\$95,580	0.19	\$261,417	0.63	\$1,506,617	3.38	\$1,509,828	3.19
Sul Ross - Rio Grande	\$0	0.00	\$0	0.00	\$0	NA	\$0	0.00
Texas State - San Marcos	\$3,975,213	1.10	\$3,536,053	1.29	\$3,045,059	1.44	\$1,930,534	0.62
Texas Tech	\$23,285,324	1.01	\$23,393,040	1.55	\$22,804,929	1.44	\$23,321,205	1.36
Texas Woman's	\$1,493,677	1.20	\$1,238,556	1.81	\$940,048	1.30	\$637,390	1.18
<b>University of Texas System</b>								
UT at Arlington	\$7,993,576	0.64	\$11,093,256	1.40	\$17,833,042	1.44	\$19,095,309	1.66
UT at Austin	\$240,537,689	4.75	\$249,014,154	5.69	\$269,612,823	5.83	\$294,832,202	5.71
UT at Brownsville	\$1,011,353	NA	\$2,889,894	NA	\$4,897,516	NA	\$5,131,456	22.54
UT at Dallas	\$14,432,841	1.37	\$15,733,571	1.73	\$19,933,291	1.19	\$19,953,502	1.37
UT at El Paso	\$17,022,000	2.17	\$22,232,318	3.05	\$23,961,812	2.72	\$26,821,331	2.72
UT-Pan American	\$1,895,223	1.73	\$2,666,191	2.06	\$3,770,457	2.69	\$4,237,445	2.08
UT of the Permian Basin	\$166,777	0.25	\$1,215,420	2.63	\$360,016	0.61	\$348,266	0.50
UT at San Antonio	\$10,049,314	3.29	\$11,705,185	3.74	\$16,174,944	3.22	\$21,463,037	3.46
UT at Tyler	\$174,362	1.23	\$585,874	4.71	\$143,425	1.23	\$438,123	2.21
<b>University of Houston System</b>								
Univ. of Houston	\$34,242,554	1.10	\$31,682,165	1.24	\$41,484,043	1.81	\$40,439,387	2.12
Univ. of Houston-Clear Lake	\$696,239	1.32	\$396,016	0.73	\$503,975	0.95	\$315,272	0.46
Univ. of Houston-Downtown	\$378,339	1.84	\$490,584	3.15	\$353,756	1.91	\$329,461	2.67
Univ. of Houston-Victoria	\$0	NA	\$0	NA	\$0	NA	\$0	NA
University of North Texas	\$8,328,900	2.33	\$6,927,327	3.72	\$7,881,131	3.22	\$9,030,177	6.92
<b>Totals</b>	<b>\$581,313,811</b>	<b>2.00</b>	<b>\$598,209,606</b>	<b>2.36</b>	<b>\$687,231,060</b>	<b>2.47</b>	<b>\$715,511,880</b>	<b>2.50</b>

NA indicates not applicable (no state research and development funds expended).

**Table 16**

<b>Expenditures for Research and Development Texas Public Health-Related Institutions</b>					
Institution	FY 2003	FY 2004	FY 2005	FY 2006	Percent Change*
Texas A&M HSC	\$50,435,247	\$58,485,824	\$70,704,945	\$72,326,559	43.40%
Texas Tech Univ HSC	\$19,751,348	\$19,827,013	\$18,189,481	\$21,665,096	9.69%
Univ North Texas HSC	\$14,901,791	\$18,519,957	\$22,325,471	\$23,867,554	60.17%
UT M.D. Anderson Cancer	\$282,260,250	\$313,916,355	\$341,978,679	\$409,679,711	45.14%
UTMB at Galveston	\$129,860,903	\$132,768,911	\$149,957,462	\$155,036,202	19.39%
UTHSC at Houston	\$152,117,064	\$150,222,206	\$156,519,695	\$175,153,808	15.14%
UT Health Center at Tyler	\$9,217,039	\$10,240,390	\$11,420,260	\$12,598,871	36.69%
UTHSC at San Antonio	\$119,279,555	\$124,912,722	\$134,058,535	\$139,778,732	17.19%
UT Southwestern Medical Center	\$277,956,511	\$314,403,028	\$320,801,884	\$333,256,162	19.90%
<b>Totals</b>	<b>\$1,055,779,708</b>	<b>\$1,143,296,406</b>	<b>\$1,225,956,412</b>	<b>\$1,343,362,695</b>	<b>27.24%</b>

NA indicates not applicable

\* Percent change for 2006, relative to 2003

**Table 17**

<b>Federal Expenditures for Research and Development Texas Public Health-Related Institutions</b>								
Institution	FY 2003		FY 2004		FY 2005		FY 2006	
	Federal R&D Dollars	Fed/State Ratio	Federal R&D Dollars	Fed/State Ratio	Federal R&D Dollars	Fed/State Ratio	Federal R&D Dollars	Fed/State Ratio
Texas A&M HSC	\$26,729,107	2.32	\$30,283,043	2.87	\$32,949,216	2.98	\$35,213,635	2.47
Texas Tech Univ HSC	\$8,674,208	2.36	\$7,603,557	1.61	\$6,278,949	0.86	\$9,712,580	1.35
Univ North Texas HSC	\$9,454,472	15.11	\$13,258,816	21.82	\$17,036,630	73.66	\$19,183,193	194.75
UT M.D. Anderson Cancer	\$122,868,912	1.57	\$150,528,694	1.67	\$160,953,856	1.61	\$182,028,411	1.50
UTMB at Galveston	\$93,039,583	6.75	\$102,490,775	9.33	\$117,235,448	10.03	\$120,407,805	10.55
UTHSC at Houston	\$111,170,193	9.37	\$110,438,174	7.95	\$116,397,631	8.09	\$122,870,079	4.74
UT Health Center at Tyler	\$3,493,251	1.45	\$4,659,021	2.11	\$4,956,399	1.91	\$6,512,656	2.63
UTHSC at San Antonio	\$86,854,337	14.72	\$89,661,741	18.21	\$95,125,850	19.80	\$95,110,395	12.36
UT Southwestern Medical Center	\$177,133,099	11.07	\$200,887,545	8.62	\$202,057,099	8.29	\$196,622,021	5.79
<b>Totals</b>	<b>\$639,417,162</b>	<b>4.43</b>	<b>\$709,811,366</b>	<b>4.41</b>	<b>\$752,991,078</b>	<b>4.28</b>	<b>\$787,660,775</b>	<b>3.51</b>

NA indicates not applicable

**Table 18**

<b>Federal Expenditures for Research and Development by Field Texas Public Universities and Health-Related Institutions</b>					
<b>Field</b>	<b>FY 2001</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>One-Year Change</b>	<b>Five-Year Change</b>
Agricultural Sciences	\$22,801,462	\$34,666,618	\$38,748,973	11.78%	69.94%
Biological and Other Life Sciences	\$216,534,637	\$344,345,124	\$337,898,248	-1.87%	56.05%
Computer Science	\$23,355,906	\$37,229,798	\$40,042,831	7.56%	71.45%
Engineering	\$136,704,012	\$178,660,892	\$200,533,686	12.24%	46.69%
Environmental Sciences	\$89,098,895	\$98,199,320	\$78,858,559	-19.70%	-11.49%
Mathematical Sciences	\$20,341,750	\$28,647,807	\$31,786,518	10.96%	56.26%
Medical Sciences	\$335,902,604	\$508,455,866	\$554,647,805	9.08%	65.12%
Physical Sciences	\$71,679,380	\$102,157,599	\$100,628,421	-1.50%	40.39%
Psychology	\$9,003,214	\$26,990,072	\$29,111,737	7.86%	223.35%
Social Sciences	\$15,466,920	\$20,745,690	\$22,699,879	9.42%	46.76%
Other Sciences	\$5,614,753	\$9,201,854	\$10,726,742	16.57%	91.05%
Arts and Humanities	\$1,276,581	\$1,162,388	\$315,619	-72.85%	-75.28%
Business Administration	\$2,223,926	\$1,736,571	\$1,720,738	-0.91%	-22.63%
Education	\$25,176,460	\$37,087,252	\$43,895,921	18.36%	74.35%
Law and Public Administration	\$2,327,220	\$1,936,173	\$2,706,174	39.77%	16.28%
Other Non-Science Activities	\$3,365,459	\$8,999,114	\$8,850,804	-1.65%	162.99%
<b>Totals</b>	<b>\$980,873,179</b>	<b>\$1,440,222,138</b>	<b>\$1,503,172,655</b>	<b>4.37%</b>	<b>53.25%</b>

In 2001, the 77th Legislature passed the Centers for Technology Development and Transfer Act (Texas Education Code, Section 153.008), which specifies reporting requirements for intellectual property income and expenses. Intellectual property income is now reported biennially in a new report, *Technology Development and Transfer*.

## NATIONAL COMPARISONS

This section of the report is based on data provided by the National Science Foundation. It is not entirely consistent with data provided in earlier sections of the report because it is based on an earlier year and because reporting requirements are somewhat different. (Appendix B)

The National Science Foundation makes three reports available, and each provides somewhat different information:

- *Federal Obligations for Science and Engineering* shows federal obligations for grants and contracts awarded to higher education science and engineering programs by federal agencies during the fiscal year. Funds obligated in any given year may be expended over a number of years, so obligations will be somewhat different from expenditures. This report includes support for a number of programs that are not necessarily research and development programs, such as science education programs and assistantship support for engineering students. The amount of support is reported by the agencies.
- *Federal Obligations for Research and Development in Science and Engineering* includes only federal funds obligated during the year to support, directly or indirectly, basic and applied research and development in science and engineering disciplines at higher education institutions. The amount of support is again reported by the agencies. Data from this report measures progress toward the research goal for Texas' higher education plan, *Closing the Gaps by 2015*, which was revised in 2005.
- *Federally Financed Research and Development Expenditures* summarizes federal funds expenditures by higher education institutions to support research and development in any given year. This report is based on data reported by institutions and summarized by the National Science Foundation.

Some of the highlights of the 2004 survey of federal research and development expenditures include the following:

- The top five states in federal research and development expenditures were:  
California – \$3.78 billion  
New York – \$2.23 billion  
Maryland – \$1.71 billion  
Texas – \$1.65 billion  
Pennsylvania – \$1.59 billion
- Texas ranked first in state- and local government-funded research and development expenditures.
- Texas ranked third in total research and development expenditures.
- Texas ranked fourth in research and development expenditures from institutional sources (behind California, New York and Illinois), second in research and development expenditures from industrial sources (behind California), and second in research and development expenditures from all other sources (behind California).
- In Texas, life sciences accounted for 68 percent of the research and development expenditures, followed by engineering (13 percent) and physical sciences (6 percent). Among states, Texas is ranked third in life sciences and fifth in physical sciences (Table 19).



Texas was last ranked among the top five states in engineering in FY 2000 and in environmental sciences in FY 2003.

**Table 19**

Top Five States in Federal R&D Expenditures Selected Science and Engineering Fields, FY 2004								
Rank	Life Sciences	\$	Engineering	\$	Physical Sciences	\$	Environmental Sciences	\$
1	California	2.2B	Maryland	468M	California	491M	California	207M
2	New York	1.6B	California	464M	Massachusetts	223M	Colorado	141M
3	<b>Texas</b>	<b>1.1B</b>	Pennsylvania	258M	Maryland	198M	Massachusetts	136M
4	Pennsylvania	963M	Massachusetts	236M	New York	177M	Florida	104M
5	Massachusetts	842M	New York	207M	<b>Texas</b>	<b>123M</b>	Maryland	85M

Note: M refers to million; B refers to billion.

Source: National Science Foundation, WebCASPAR Database System, 03/23/2007

Table 20 shows the ranking of all states in federal obligations for science and engineering, federal obligations for research and development in science and engineering, and federally financed research and development expenditures for 2004. Texas ranks fifth in federal obligations for science and engineering, which includes science education, and also ranks fifth in federal obligations for research and development in science and engineering, which excludes science education. Texas ranks fourth in research and development expenditures from federal sources. Patterns in federal research and development support over time for the top six states are shown in Figures 9 and 10. California and New York are the uncontested leaders in federal research support to the states.

**Table 20**

State Rank in Federal Obligations and Federally Financed R&D, FY 2004 (Thousands of Dollars)						
State	Federal Obligations for Science and Engineering to Colleges and Universities		Federal Obligations for R&D in Science and Engineering to Colleges and Universities		Federally Financed R&D Expenditures at Colleges and Universities	
	FY 2004	Rank	FY 2004	Rank	FY 2004	Rank
California	\$3,772,923	1	\$3,458,540	1	\$3,784,422	1
New York	\$2,223,117	2	\$1,948,714	2	\$2,230,932	2
Maryland	\$1,662,914	3	\$1,382,909	4	\$1,710,143	3
Pennsylvania	\$1,634,436	4	\$1,489,570	3	\$1,594,968	5
Texas	\$1,558,383	5	\$1,342,911	5	\$1,645,063	4
Massachusetts	\$1,496,390	6	\$1,342,045	6	\$1,581,104	6
North Carolina	\$1,076,923	7	\$948,086	7	\$933,291	8
Illinois	\$1,009,067	8	\$893,052	8	\$1,066,317	7
Michigan	\$819,046	9	\$729,710	9	\$820,716	10
Ohio	\$758,414	10	\$672,900	10	\$848,898	9
Washington	\$736,150	11	\$652,589	11	\$705,963	12
Colorado	\$669,043	12	\$569,159	12	\$621,459	14

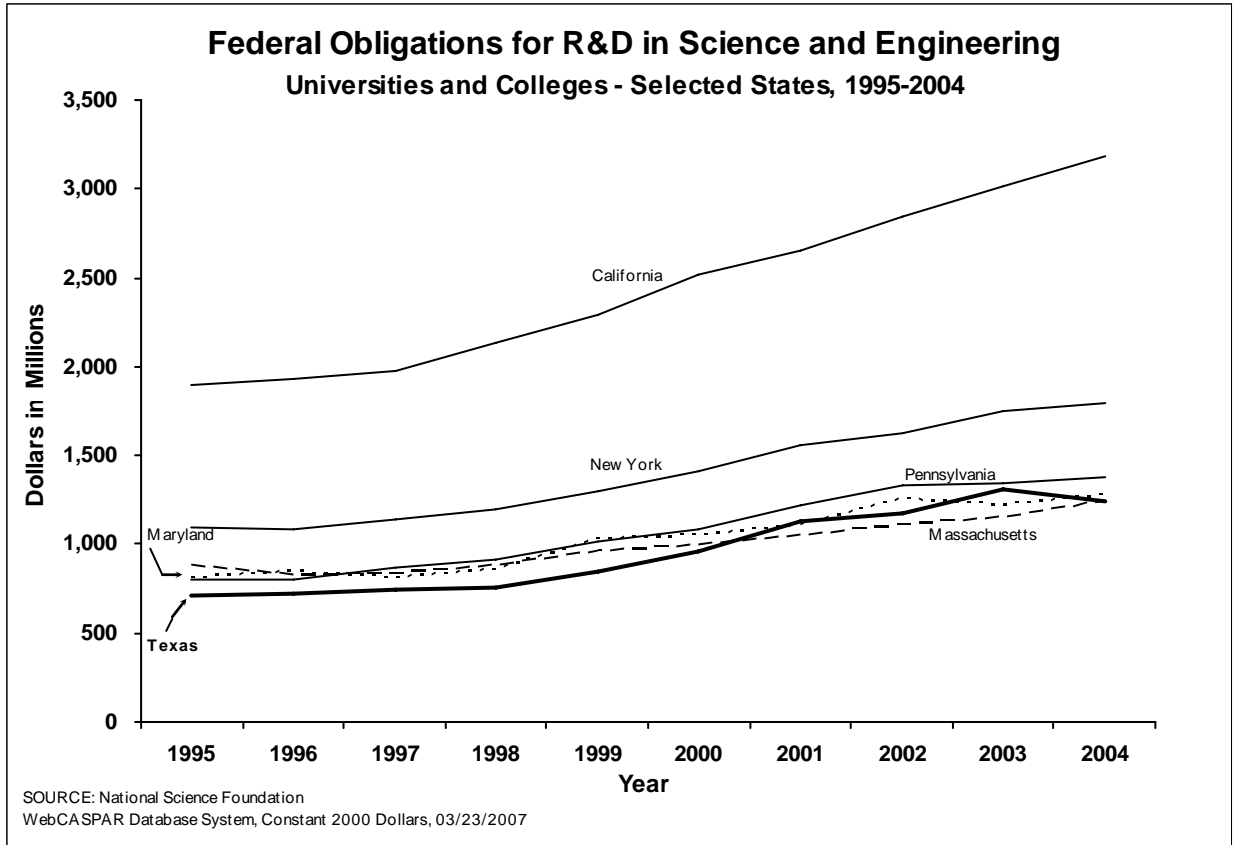
(table continued on next page)

**Table 20 - continued**

<b>State Rank in Federal Obligations and Federally Financed R&amp;D, FY 2004 (Thousands of Dollars)</b>						
	<b>Federal Obligations for Science and Engineering to Colleges and Universities</b>		<b>Federal Obligations for R&amp;D in Science and Engineering to Colleges and Universities</b>		<b>Federally Financed R&amp;D Expenditures at Colleges and Universities</b>	
<b>State</b>	<b>FY 2004</b>	<b>Rank</b>	<b>FY 2004</b>	<b>Rank</b>	<b>FY 2004</b>	<b>Rank</b>
Florida	\$638,557	13	\$535,443	14	\$746,889	11
Wisconsin	\$613,194	14	\$482,815	16	\$562,866	15
Missouri	\$599,185	15	\$539,541	13	\$543,237	16
Georgia	\$596,611	16	\$508,349	15	\$700,306	13
Virginia	\$519,435	17	\$441,042	18	\$527,199	17
Connecticut	\$499,549	18	\$460,469	17	\$467,555	18
Tennessee	\$491,315	19	\$411,875	19	\$436,220	19
Alabama	\$410,187	20	\$326,075	22	\$417,000	21
Minnesota	\$378,680	21	\$335,851	20	\$312,782	25
Indiana	\$375,738	22	\$335,397	21	\$365,336	24
New Jersey	\$347,567	23	\$301,721	23	\$420,323	20
Arizona	\$345,254	24	\$290,624	24	\$376,657	22
Oregon	\$332,207	25	\$286,895	25	\$370,921	23
Iowa	\$316,638	26	\$274,304	26	\$306,237	26
Louisiana	\$268,180	27	\$210,720	28	\$235,304	30
Utah	\$260,433	28	\$240,067	27	\$286,193	27
Kentucky	\$228,656	29	\$181,254	30	\$195,032	33
District of Columbia	\$217,606	30	\$187,416	29	\$239,752	29
South Carolina	\$208,975	31	\$165,703	33	\$245,411	28
New Mexico	\$204,772	32	\$169,542	31	\$204,358	32
Mississippi	\$201,382	33	\$162,127	34	\$211,346	31
Hawaii	\$198,720	34	\$169,376	32	\$191,252	34
New Hampshire	\$165,170	35	\$141,066	35	\$191,026	35
Kansas	\$157,267	36	\$132,237	36	\$170,548	36
Nebraska	\$142,578	37	\$116,334	37	\$129,578	39
Oklahoma	\$136,045	38	\$105,192	39	\$140,434	37
Rhode Island	\$127,220	39	\$112,695	38	\$133,282	38
Arkansas	\$101,188	40	\$83,045	40	\$94,040	42
Vermont	\$90,913	41	\$81,709	41	\$80,242	46
Alaska	\$87,292	42	\$77,972	42	\$82,681	43
Montana	\$85,592	43	\$68,158	44	\$97,411	41
Nevada	\$79,774	44	\$74,107	43	\$105,035	40
North Dakota	\$74,224	45	\$60,136	45	\$81,724	44
West Virginia	\$69,736	46	\$53,995	47	\$79,482	47
Delaware	\$69,555	47	\$59,642	46	\$80,925	45
Idaho	\$51,465	48	\$38,222	48	\$64,623	48
South Dakota	\$46,529	49	\$33,206	49	\$35,869	50
Maine	\$35,169	50	\$25,604	50	\$38,918	49
Wyoming	\$27,048	51	\$24,481	51	\$23,186	51

SOURCE: National Science Foundation, WebCASPAR Database System, 03/23/2007

**Figure 9**



**Figure 10**

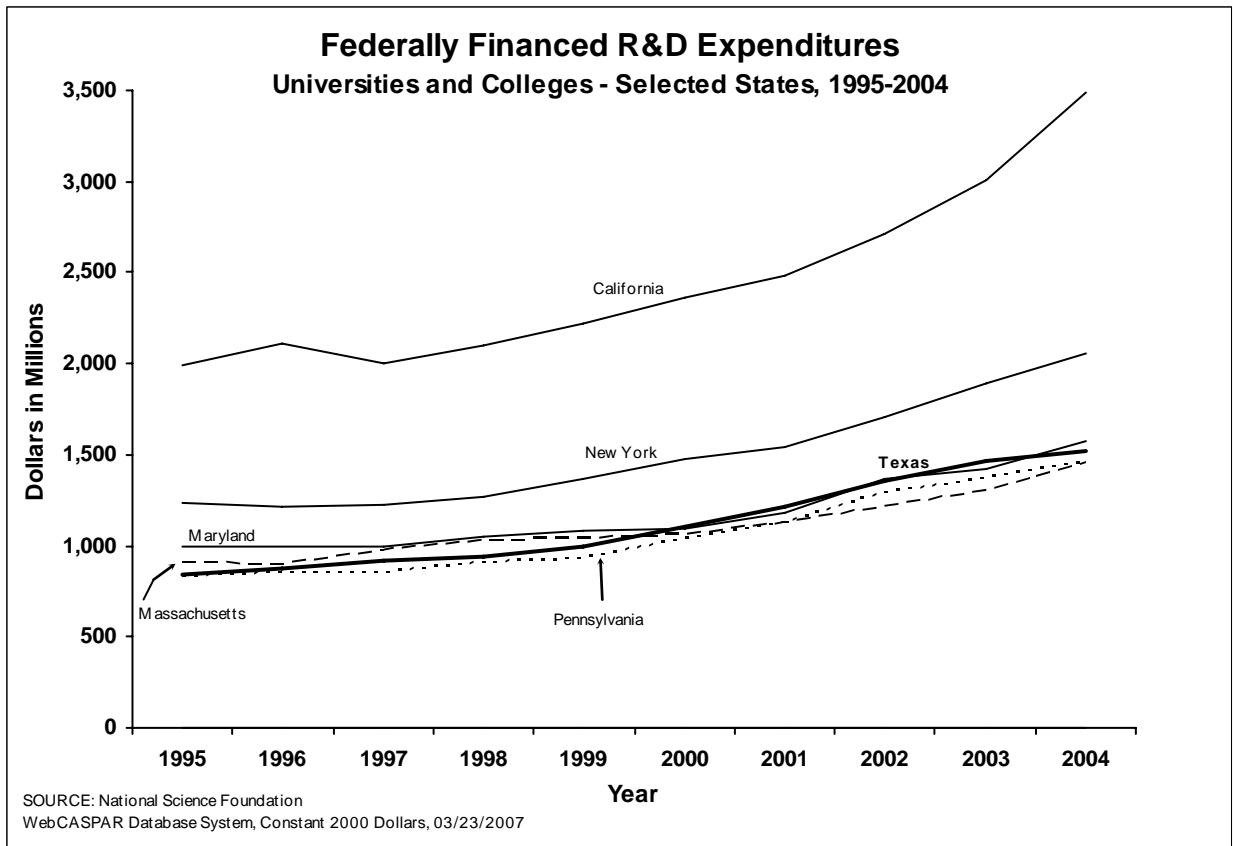


Table 21 shows federal obligations and federally financed research and development expenditures for Texas higher education institutions for FY 2004. The table includes public and independent institutions. The top five institutions account for 57, 62, and 65 percent of the total federal support in Federal Obligations for Science and Engineering, Federal Obligations for R&D in Science and Engineering, and Federally Financed R&D Expenditures categories, respectively.

**Table 21**

<b>Federal Obligations and Federally Financed R&amp;D by Texas Institutions, FY 2004 (Thousands of Dollars)</b>			
<b>Institution</b>	<b>Federal Obligations for Science and Engineering</b>	<b>Federal Obligations for R&amp;D in Science and Engineering</b>	<b>Federally Financed R&amp;D Expenditures</b>
Abilene Christian	\$371	\$165	\$135
Angelo State	\$18	---	---
Baylor- Coll. of Medicine	\$264,888	\$252,565	\$312,669
Baylor Univ.	\$3,314	\$2,305	\$1,372
Brazosport Coll.	\$410	---	---
Coll. of the Mainland	\$1,000	---	---
Collin County Community Coll.	\$640	---	---
Del Mar Coll.	\$733	---	---
Eastfield Coll.	\$396	---	---
El Paso Community Coll.	\$675	\$559	---
Frank Phillips Coll.	\$1,000	---	---
Grayson County Coll.	\$1,000	---	---
Houston Community Coll.	\$685	---	---
Huston-Tillotson Coll.	\$50	---	---
Jarvis Christian Coll.	\$599	\$92	\$232
Lamar	\$1,098	\$1,098	\$1,494
Le Tourneau Univ.	\$98	\$98	---
Lee Coll.	\$504	---	---
Midland Coll.	\$1,275	---	---
Midwestern State	\$23	---	---
North Harris Montgomery Cmty. Coll. District	\$75	---	---
Our Lady of the Lake	\$1,592	\$596	---
Prarie View A&M	\$12,266	\$5,276	\$7,965
Rice Univ.	\$50,740	\$39,389	\$51,157
Richland Coll.	\$396	---	---
Sam Houston State	\$848	\$385	\$866
San Jacinto Coll.	\$60	\$60	---
San Jacinto Coll. District System	\$1,194	---	---
South Plains Coll.	\$499	---	---
Southern Methodist	\$4,225	\$4,064	\$6,752
Southwestern Univ.	\$406	---	---
St. Mary's Univ.	\$609	\$364	\$414
Stephen F. Austin State	\$651	\$551	\$740
Sul Ross State	\$1,967	\$1,675	\$261
Tarleton State	\$794	\$447	\$5,208
Tarleton State Univ. Sys. Ctr.-Central TX	\$16	\$16	---

Shading indicates the five highest in each category.

Table 21 - continued

<b>Federal Obligations and Federally Financed R&amp;D by Texas Institutions, FY 2004</b>			
<b>(Thousands of Dollars)</b>			
<b>Institution</b>	<b>Federal Obligations for Science and Engineering</b>	<b>Federal Obligations for R&amp;D in Science and Engineering</b>	<b>Federally Financed R&amp;D Expenditures</b>
Temple Coll.	\$223	---	---
Texas A&M and Services	\$89,529	\$58,083	\$173,705
Texas A&M HSC	\$33,776	\$27,687	\$30,283
Texas A&M System Office	\$34,557	\$33,150	---
Texas A&M-Commerce	\$213	---	\$54
Texas A&M-Corpus Christi	\$1,403	\$756	\$5,685
Texas A&M-Kingsville	\$2,896	\$1,936	\$3,832
Texas A&M-Texarkana	\$390	---	---
Texas Christian	\$3,499	\$3,389	\$2,961
Texas Southern	\$5,535	\$4,537	\$3,749
Texas State Technical Coll.	\$621	---	---
Texas State - San Marcos	\$2,118	\$710	\$3,536
Texas Tech (includes HSC)	\$25,493	\$20,315	\$30,785
Texas Wesleyan Univ.	\$121	---	---
Texas Woman's	\$444	---	\$1,175
Trinity Univ.	\$264	\$264	\$805
Tyler Junior Coll.	\$226	---	---
Univ. North Tx HSC	---	---	\$13,259
Univ. of Houston	\$28,050	\$25,175	\$34,468
Univ. of Houston System Administration	\$640	\$640	---
Univ. of Houston-Clear Lake	\$234	\$234	\$238
Univ. of Houston-Downtown	\$1,909	\$1,909	\$449
Univ. of the Incarnate Word	\$1,010	---	---
University of North Texas	\$19,048	\$17,192	\$5,499
UT at Arlington	\$13,090	\$8,567	\$10,498
UT at Austin	\$187,523	\$149,199	\$235,281
UT at Dallas	\$13,391	\$12,957	\$15,733
UT at El Paso	\$27,583	\$12,382	\$16,900
UT at San Antonio	\$16,938	\$8,626	\$11,644
UT at Tyler	\$5,272	\$3,995	---
UT M.D. Anderson Cancer	\$160,091	\$157,773	\$150,529
UT Southwestern Medical Center	\$177,520	\$167,698	\$200,888
UT System Office	\$41,967	\$36,023	---
UTHSC at Houston	\$101,427	\$88,852	\$106,737
UTHSC at San Antonio	\$93,165	\$86,697	\$89,662
UTMB at Galveston	\$102,882	\$99,100	\$102,491
UT-Pan American	\$6,384	\$3,596	\$2,578
UT of the Permian Basin	\$518	---	---
Weatherford Coll.	\$1,025	---	---
West Texas A&M	\$1,797	\$1,764	\$2,205
Wharton County Junior Coll.	\$496	---	---
Wiley Coll.	---	---	\$169
<b>Texas Total</b>	<b>\$1,558,383</b>	<b>\$1,342,911</b>	<b>\$1,645,063</b>

SOURCE: National Science Foundation, WebCASPARE Database System, 02/23/2007

Shading indicates the five highest in each category.

Figure 11 shows federal obligations to Texas higher education institutions for research and development in science and engineering by federal agency. The National Institutes of Health have a long history of providing most of the federal research support to Texas higher education institutions. The budget of this federal agency doubled from 1999 to 2003, providing more research funding for higher education institutions across the country.

**Figure 11**

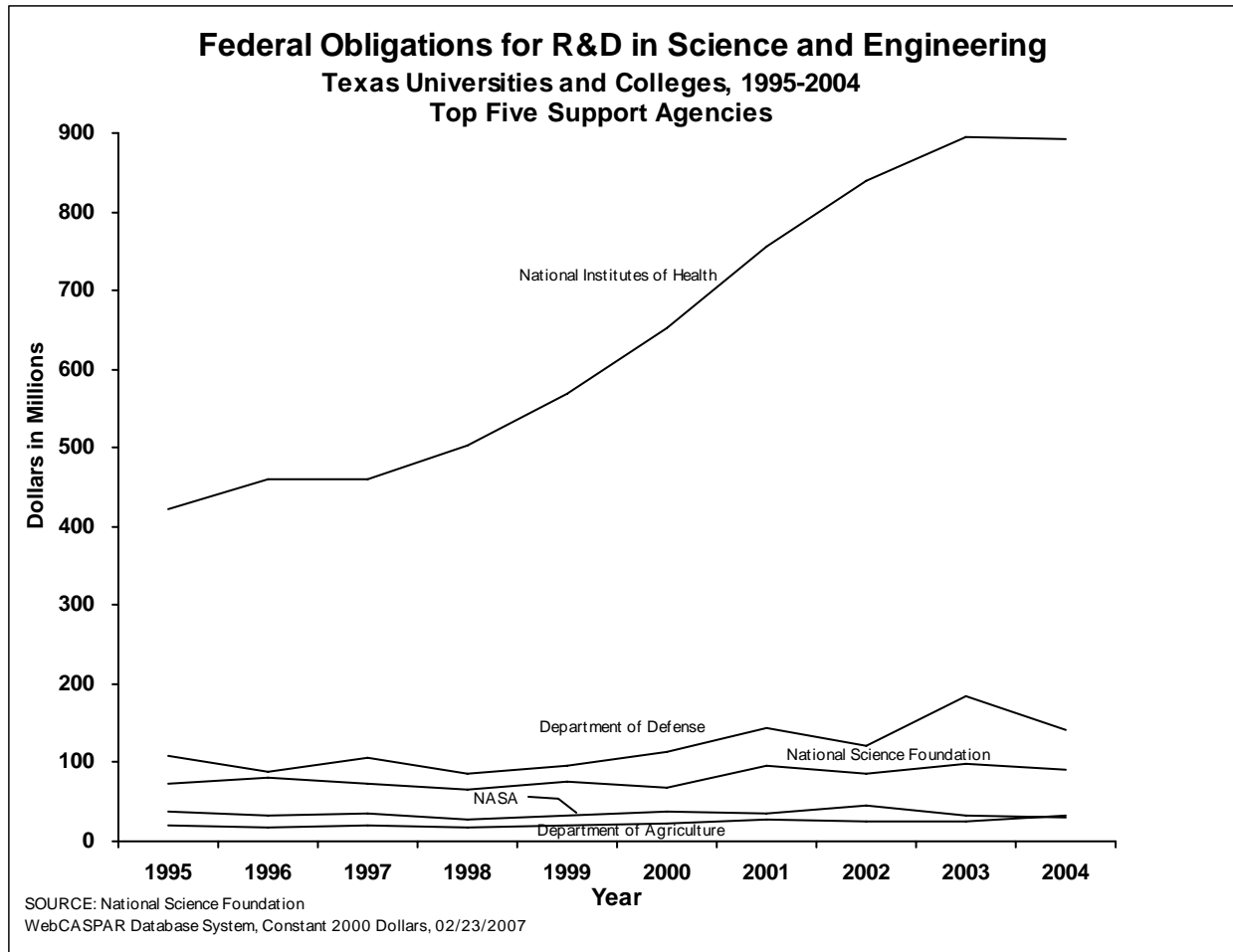


Table 22 shows obligations from federal agencies providing the most support to Texas higher education institutions. The National Institutes of Health provide most of the federal support at health-related institutions. The National Institutes of Health, the Department of Defense, and the National Science Foundation provide most of the federal support for The University of Texas at Austin. The Department of Agriculture and the National Science Foundation provide most of the support for Texas A&M University. The National Science Foundation, the Department of Defense, and the National Institutes of Health provide most of the federal support for Rice University. The University of Houston receives most of its federal support from the National Institutes of Health and the National Science Foundation.

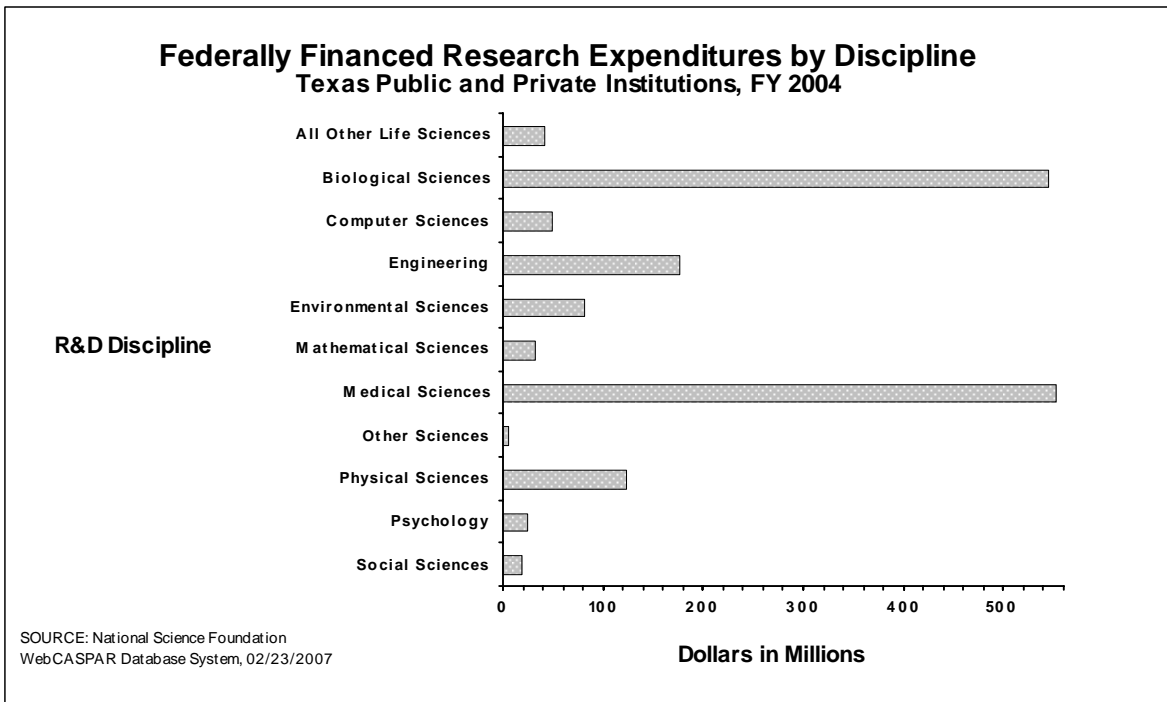
**Table 22**

<b>Texas Universities and Colleges with Federal Science and Engineering R&amp;D Obligations of More Than \$10 Million by Support Agency, FY 2004 (Thousands of Dollars)</b>								
Institution	National Institutes of Health	Dept. of Defense	National Science Foundation	Dept. of Agriculture	NASA	Dept. of Energy	All Other Federal Agencies	Total of All Federal Agencies
Baylor-Coll. of Medicine	\$235,739	\$10,013	---	\$5,839	\$271	---	\$703	\$252,565
UT Southwestern Med Center	\$164,422	\$2,501	\$346	---	\$19	---	\$410	\$167,698
UT M.D. Anderson Cancer	\$142,957	\$13,867	---	---	\$98	---	\$851	\$157,773
UT at Austin	\$46,832	\$41,240	\$35,282	\$268	\$6,817	\$15,141	\$3,619	\$149,199
UTMB at Galveston	\$93,281	\$3,119	\$607	---	\$901	\$368	\$824	\$99,100
UTHSC at Houston	\$77,116	\$9,577	\$336	\$110	---	\$1,060	\$653	\$88,852
UTHSC at San Antonio	\$80,724	\$1,409	\$412	---	\$1,641	---	\$2,511	\$86,697
Texas A&M	---	\$4,365	\$18,567	\$19,846	\$5,137	\$3,324	\$6,844	\$58,083
Rice	\$7,042	\$8,826	\$16,904	---	\$2,476	\$2,100	\$2,041	\$39,389
UT System Office	---	\$33,425	---	---	\$2,404	---	\$194	\$36,023
Texas A&M System Office	\$26,564	\$2,072	---	---	\$1,201	\$1,450	\$1,863	\$33,150
Texas A&M HSC	\$27,550	---	---	---	---	---	\$137	\$27,687
Univ. of Houston	\$14,611	\$19	\$7,821	---	\$1,146	\$1,515	\$63	\$25,175
Texas Tech (includes HSC)	\$6,972	\$3,125	\$2,769	\$3,192	\$2,278	\$1,296	\$683	\$20,315
University of North Texas	\$11,260	\$3,022	\$2,398	---	---	\$462	\$50	\$17,192
UT at Dallas	\$4,371	\$2,813	\$3,958	---	\$1,279	\$536	---	\$12,957
UT at El Paso	\$4,129	\$1,905	\$2,795	---	\$2,993	\$20	\$540	\$12,382
All other Institutions	\$23,584	\$11,349	\$7,815	\$7,534	\$3,366	\$2,523	\$2,503	\$58,674
<b>Totals</b>	<b>\$967,154</b>	<b>\$152,647</b>	<b>\$100,010</b>	<b>\$36,789</b>	<b>\$32,027</b>	<b>\$29,795</b>	<b>\$24,489</b>	<b>\$1,342,911</b>

SOURCE: National Science Foundation, WebCASPAR Database System, 02/23/2007

Figure 12 shows federally financed research and development expenditures at Texas public and independent higher education institutions by scientific discipline. Most of the expenditures are made in medical and biological sciences.

**Figure 12**



## APPENDIX A – RESEARCH EXPENDITURES SURVEYS

### THECB - Survey of Research Expenses, FY 2006 Public Universities and Health-Related Institutions About the On-Line Form

The survey should be completed by using the on-line form by December 8, 2006

The on-line form will be used to submit your institution's FY 2006 research expense data. The login page for the form has an instructions page and links to previous expenditures reports. Blank Lotus and Excel worksheets can be downloaded here, but the information still must be entered into the on-line form.

The on-line form consists of five parts, easily navigated with the buttons on the bottom of each web page. The whole form is saved when clicking on the "Total" buttons, going from page to page or clicking the "Save and Logoff" buttons. Using the "Reload Last Save" button will return information changed on a particular page before any other buttons are clicked on. Clicking underlined row or column labels will open a viewable definition for that item, and full instructions and definitions are accessible from the bottom of any page. Use whole dollar amounts, as the system will truncate decimals. The system will ignore any characters (dollar signs, commas, etc.) typed into entry blocks in parts 2-5. Click on any "Total" button to calculate column and row totals which are clearly marked in yellow.

The FICE code for your institution will be used to log in to the system, and please safeguard the provided password and authorization code. The password may be issued to individuals for completion of the form. When the form is ready for final submission, the final approval authority (usually the highest research executive at the institution) clicks the "Submit to THECB" button in part 5 and enters name, title and the authorization code.

Using the print button before final authorization will produce a draft printout of all forms. After final authorization, your data cannot be accessed or altered, but a printout of the final version can be produced. If you have questions or need assistance, contact information is located at the bottom of each web page or you may call Dale Cherry or Linda Domelsmith at 512-427-6150.

**THECB Survey of Research Expenditures, FY 2006**  
(Sep. 1, 2003 - Aug. 31, 2006)  
**Universities and Health-Related Institutions**

On-Line Electronic Submission System for Research Expenditures, FY 2006  
The survey should be completed by using the on-line form by December 8, 2006  
(independent institutions by December 20)

To Access the On-line form, login below

Institution:

Password:

[Instructions and Definitions About the On-line Form](#)

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**THECB Survey of Research Expenditures, FY 2006** (Sep. 1, 2005 - Aug. 31, 2006)  
**Part 1 of 5 - Contact Information**

First Name:  Last Name:   
 Title:

**Institution:** ISA Texas University  
**Address:**

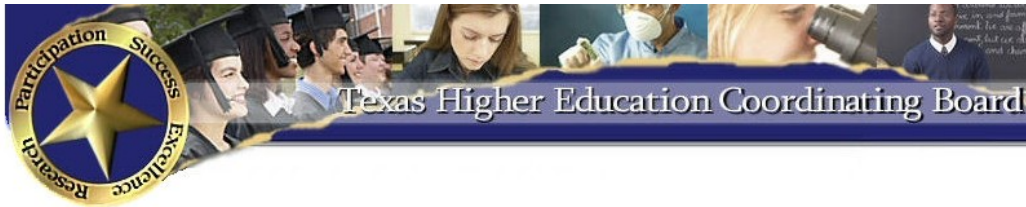
College Town, TX 78727  
 Phone Number:  E-mail:



**THECB Survey of Research Expenditures, FY 2006** (Sep. 1, 2005 - Aug. 31, 2006)  
**Part 2 of 5 - Expenditures for Conduct of R&D by Field**  
 ISA Texas University

Sources of Funds(use whole dollar amounts)

	Federal	State		Institution Controlled	Private		Total
		Appropriated	Contract/Grants		Profit	Non-Profit	
<a href="#">1. Agricultural Sciences</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">2. Biological and Other Life Sciences</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">3. Computer Science</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">4. Engineering</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">5. Environmental Sciences</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">6. Mathematical Sciences</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">7. Medical Sciences</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">8. Physical Sciences</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">9. Psychology</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">10. Social Sciences</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">11. Other Sciences not classified above</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">12. Arts and Humanities</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">13. Business Administration</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">14. Education</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">15. Law and Public Administration</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<a href="#">16. Other Non-Science Activities not classified above</a>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	\$0
<b>Total Expenditures for Conduct of R&amp;D</b>							
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0



**THECB Survey of Research Expenditures, FY 2006** (Sep. 1, 2005 - Aug. 31, 2006)  
**Part 3 of 5 - Details for Total Expenditures for Conduct of R&D**  
**ISA Texas University**

Sources of Funds(use whole dollar amounts)

<a href="#">1. Expenses for R&amp;D, as defined in this report, that are reported as the functional total expenses for research on the Statement of Revenues, Expenses and Changes in Net Assets, Annual Financial Report</a>	0
2. Indirect costs associated with figure reported in line 1	0
<a href="#">3. Capital outlay for research equipment</a> (do not include R&D plant expenses or construction)	0
4. Expenditures for Conduct of R&D made by institution's research foundation or 501(C)3 corporation on behalf of the institution and not reported on institution's Annual Financial Report, including indirect costs not reported in line 2	0
5. Pass-throughs from Texas Engineering Experiment Station for conduct of R&D not reported in Line 1	0
Sum of 1 through 5	\$0
Sum of 1 through 5 MUST equal "Total Expenditures for Conduct of R&D" from Part 2	\$0



**THECB Survey of Research Expenditures, FY 2006** (Sep. 1, 2005 - Aug. 31, 2006)  
**Part 4 of 5 - Total Expenditures for Research-Related Activities**  
**ISA Texas University**

Sources of Funds(use whole dollar amounts)

	<b>Federal</b>		<b>State</b>		<b>Institution Controlled</b>	<b>Private</b>		<b>Total</b>
			Appropriated	Contract/Grants		Profit	Non-Profit	
<a href="#">1. Expenses for Activities Reported as Research on the Statement of Revenues, Expenses and Changes in Net Assets, Annual Financial Report, but not meeting the narrow definition of R&amp;D used in this report.</a>	0		0		0	0	0	\$0
2. Other Research-related equipment expenditures (noncurrent fund expenses, etc. - do not include R&D plant expenses or construction)	0		0		0	0	0	\$0
<a href="#">3. Total Expenditures for Conduct of R&amp;D (from Part 2)</a>		\$0	\$0		\$0	\$0	\$0	\$0
Total Expenditures for Research-Related Activities (Sum of 1-3) <input type="button" value="Total"/>		\$0	\$0		\$0	\$0	\$0	\$0

## Part 5 for Public Universities



THECB Survey of Research Expenditures, FY 2006 (Sep. 1, 2005 - Aug. 31, 2006)  
**Part 5 of 5 - Expenditures for Conduct of R&D in Areas of Special Interest**  
 (funds may be reported in more than one area)  
**ISA Texas University**

Sources of Funds(use whole dollar amounts)

	Federal	State		Institution Controlled	Private		Total
		Appropriated	Contract/Grants		Profit	Non-Profit	
1. Aerospace Technology	0	0	0	0	0	0	\$0
2. Biotechnology	0	0	0	0	0	0	\$0
3. Energy	0	0	0	0	0	0	\$0
4. Environmental Sciences	0	0	0	0	0	0	\$0
5. Food, Fiber, Agricultural Products	0	0	0	0	0	0	\$0
6. Manufacturing Technology	0	0	0	0	0	0	\$0
7. Materials Science	0	0	0	0	0	0	\$0
8. Microelectronics and Computer Technology	0	0	0	0	0	0	\$0
9. Water Resources	0	0	0	0	0	0	\$0
Total Expenditures for Conduct of R&D in Areas of Special Interest (Sum of categories above)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total							

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## Part 5 for Public Health Institutions



THECB Survey of Research Expenditures, FY 2006 (Sep. 1, 2005 - Aug. 31, 2006)  
**Part 5 of 5 - Expenditures for Conduct of R&D in Areas of Special Interest**  
 (funds may be reported in more than one area)  
**ISA Texas Health Institution**

Sources of Funds(use whole dollar amounts)

	Federal	State		Institution Controlled	Private		Total
		Appropriated	Contract/Grants		Profit	Non-Profit	
1. Aging	0	0	0	0	0	0	\$0
2. Cancer Research	0	0	0	0	0	0	\$0
3. Cardiovascular Research	0	0	0	0	0	0	\$0
4. Child Health and Human Development	0	0	0	0	0	0	\$0
5. Mental Health	0	0	0	0	0	0	\$0
6. Substance Abuse	0	0	0	0	0	0	\$0
Total Expenditures for Conduct of R&D in Areas of Special Interest (Sum of categories above)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total							

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**THECB Survey of Research Expenses, FY 2006  
Public Universities and Health-Related Institutions  
Instructions and Definitions for Survey**

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**The survey should be completed by using the on-line form by December 8, 2006**

**About This Survey**

This is an annual survey conducted by the Texas Higher Education Coordinating Board. It is mandated by the Texas Legislature, and it is the basis for an annual report of research expenses at Texas institutions of higher education.

The report is widely used by institutions of higher education and other state agencies, and excerpts from the report are widely reported in the press. In addition, the data provides the basis for many far-reaching policy and management decisions. It is critical that the data be reported accurately and completely.

This report should be consistent with the Annual Financial Report (AFR) of the institution. Refer to College and University Business Administration, NACUBO.

The report includes only separately budgeted and accounted for expenses and does not include research done by faculty members as a regular part of their academic duties.

The data collection form and definitions are modeled after similar forms used by the National Science Foundation in an effort to provide comparability of data with national data and to reduce the data collection efforts of the institutions.

Blank Lotus 1-2-3 and Excel worksheets can be downloaded here, but the information is required to be entered into the on-line form.

**General Concepts and Definitions**

**A. Research and Development (R&D) activities are defined as follows:**

1. Research is systematic study directed toward fuller scientific knowledge or understanding of the subject studies.
2. Development is systematic use of knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods including design and development of prototypes and processes.

Exclusions from research and development:

- Training of scientific manpower
- Mapping and surveys
- Routine product testing
- Quality Control
- Experimental production
- Collection of general purpose statistics (statistics not collected as part of a specific R&D project)

NOTE: Certain activities may or may not be classified as research and development depending upon circumstances. Examples of such activities are given below in section B, Reporting Guidelines for R&D versus Non-R&D Activities.

## **B. Selected financial terms**

Fiscal Year 2006 - The 12-month accounting period ending August 31, 2006.

Expenditures - All amounts of money paid out by your institution to support R&D activities. Include funds "passed through" to other institutions of higher education. Include earned indirect costs and fringe benefits. Do not include non-monetary awards.

Federal Funds - All Federal monies used in support of the R&D activities of your institution. These include reimbursements, contracts, grants, and any identifiable amounts spent from Federal programs including Federal monies passed through state agencies.

State Sources - Include all expenditures of funds appropriated by the State of Texas not included in institutionally controlled funds listed in paragraph 5 below. Included in this category are state appropriated "Special Items" and state contracts and grants such as ATP and ARP funds, interagency contracts, contracts with Texas local governments, etc.

Institutionally Controlled - Include expenditures of funds that are locally controlled. This would include PUF and AUF funds, other local funds, etc.

Private - Include expenditures of funds from both for-profit and not-for-profit corporations and individuals. Also, include in this category funds from agencies from other states.

### **Definitions for Specific Items**

(Numbering corresponds to line number for on-line data collection form)

**Expenses for conduct of R&D** - All expenses except those for R&D plant. (Part 2, Total of 1-16)

Capital outlay for research equipment

As a result of recent changes adopted by the Government Accounting Standards Board, annual financial reports will report expenses rather than expenditures. The major difference is that capital outlays for research equipment will be depreciated over the life of the equipment and will not be separately identified as research items in the annual financial reports. This line allows inclusion of expenditures for equipment that are not included in research expenses (Part 3, line 1). The research definition used for this report does not allow inclusion of expenses for R&D plant or construction (Part 3, Line 3)

**Expenses for other research-related activities - Reported as research on the AFR but not meeting the narrower definitions of R&D required in this report.** Externally-funded activities that cannot be classified as R&D using the definitions appearing in A, above, are included. Do not include projects funded with "development" funds unless they are related to research activities. (Part 4, Line 1)

#### **Notes: Reporting Guidelines for R&D versus Non-R&D Activities:**

Economic studies - To be classified as research, the activities under this heading should be systematic and intensive. They should not include program planning, implementation, and evaluation unless these activities are designed as a fairly rigorous research effort. For example, a study to determine the impact of proposed tax changes on State revenues, or on Statewide employment, consumption, or industrial output could be reported as economic research. But the collection of economic data on tax revenues, personal income, or industrial output would be reported as economic research only if collected as part of the research project.

Evaluation - Evaluation qualifies as research when it is part of a specific research undertaking. Evaluation conducted separately from a research project is considered research when it involves

scientific method and hypothesis testing procedures with fairly rigorous standards. Evaluation activities that do not involve systematic design and testing should not be included.

Demonstration - Demonstration activities that are part of research or development (i.e., that are intended to prove or to test whether a technology or method does, in fact, work) should be included. Demonstration intended to make available information about new technologies or methods should not be included. For example, an educational demonstration on new teaching methods should be reported as an R&D activity if the demonstration is established as an experiment to produce new information, is accomplished within a definite time period, and is accompanied by a thorough evaluation. An educational demonstration to apply or exhibit new teaching methods, or a demonstration without a scheduled termination or a thorough evaluation, should not be reported as an R&D activity.

Collection of statistical data - The collection of statistics is an R&D activity only if conducted as part of a specific research or development program. For example, the regular collection and publication of statistics on the incidence of various diseases within a State by a State health department is general purpose data collection and not research or development. The data gathering is not part of a research program and is designed for use by a range of persons, such as practicing physicians, public health officials, and school officials. If the data on incidence of diseases are gathered as part of a project on the origin and nature of particular diseases, however, or to establish generalizations on why certain individuals or groups contract certain diseases, this would be research.

Satellite information - Photographs and tapes purchased from Federal agencies (or others) sponsoring satellite operations are not considered research and development unless they are used primarily in support of a research or development program. Tapes and photographs that are stored in documentation centers or used primarily for the formulation of regulations are excluded from this survey.

Technology transfer - Technology transfer involves the adoption, and perhaps adaptation, of new techniques or products that have already been brought to a usable condition. The adoption and use of a technology is not research and development, but the adaptation of a technology to meet unique regional or local needs could involve R&D activities. For example, a new method of treating water to make it potable is developed in one State. If another State adopts the same treatment process, the adoption costs for facilities, equipment, personnel, etc., are not R&D expenditures. However, if further systematic, intensive study is required by the second State to modify the treatment process to adapt it to unique local conditions, the costs of modification and adaptation could be R&D expenditures.

Agricultural sciences deal with the production of food and fiber. They include work in plant sciences, animal sciences, aquaculture, agricultural economics, and other topics related to the agricultural enterprise. (Part 2, Line 1)

Biological sciences are those life sciences (apart from medical sciences and agricultural sciences described above) that deal with the origin, development, structure, function, and interaction of living things. Examples of biological sciences are as follows: anatomy; animal sciences; bacteriology; biochemistry; biogeography; biophysics; ecology; embryology; entomology; evolutionary biology; genetics; immunology; microbiology; molecular biology; nutrition and metabolism; parasitology; pathology; pharmacology; physical anthropology; physiology; plant sciences; radiobiology; systematics. (Part 2, Line 2)

Computer science is concerned with the application of mathematical methods to automated information systems, the development of computer technology, and advanced applications of computers. (Part 2, Line 3)

Engineering is concerned with studies directed toward developing engineering principles or toward making specific principles usable in engineering practice. Engineering fields include aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified, such as agricultural, bioengineering, biomedical, industrial, nuclear, ocean and systems. (Part 2, Line 4)

Environmental sciences (terrestrial and extraterrestrial) are concerned with the gross, non-biological properties (with one exception) of the areas of the solar system that directly or indirectly affect man's survival and welfare. They comprise the fields of atmospheric sciences, geological sciences, and oceanography. The one exception is that expenditures for studies pertaining to life in the sea or other bodies of water are to be reported as support of oceanography and not biology. (Part 2, Line 5)

Mathematical sciences employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols. (Part 2, Line 6)

Medical sciences are concerned with the causes, effects, prevention, or control of abnormal conditions in man or his environment as they relate to health. Included are the clinical medical sciences, which are concerned with the study of the origins, diagnosis, or treatment of a particular disease in living human subjects under controlled conditions, and other medical sciences. Examples of the medical sciences are as follows: internal medicine; neurology; ophthalmology; preventive medicine and public health; psychiatry; radiology; surgery; veterinary medicine; dentistry; physical medicine and rehabilitation; podiatry. (Part 2, Line 7)

Physical sciences are concerned with the understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry; physics, and physical sciences not elsewhere classified. (Part 2, Line 8)

Psychology deals with behavior, mental processes, and individual and group characteristics and abilities. Examples of disciplines within psychology are as follows: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethnology; social psychology; educational personnel, vocational psychology and testing; industrial and engineering psychology; development and personality. (Part 2, Line 9)

Social sciences are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. These include anthropology, economics, history, linguistics, political sciences, and sociology. (Part 2, Line 10)

Other sciences not elsewhere classified is a category to be used for multidisciplinary and interdisciplinary projects and cannot be classified within one of the broad fields of science listed above. (Part 2, Line 11)

Arts and humanities include topics such as art, music, history, languages, religion, and other aspects of man's culture and heritage. (Part 2, Line 12)

Business administration deals with the management and operation of business enterprises. It includes work in management, marketing, accounting, and related topics. (Part 2, Line 13)

Education includes research related to any aspect of education. This includes elementary, secondary, and higher education; educational policy; education administration; etc. (Part 2, Line 14)

Law and public administration includes research related to legal systems and to public policy at the federal, state, or local levels. (Part 2, Line 15)

Other non-science activities should include all non-science disciplines not appropriately categorized above. (Part 2, Line 16)

Areas of Special Interest - This section is intended to provide information on expenditures in areas of special interest to the public. The list is not all-inclusive. The totals in Part 5 will not normally be equal to the "Total Expenditures for Conduct of R&D" found in Part 2. Further, expenditures may overlap two or more categories (e.g., a given project may be reported both as materials science and microelectronics or as mental health and substance abuse). Institutions may need to use ad hoc estimators to come up with these numbers. (Part 5)



## APPENDIX B – DIFFERENCES IN THECB AND NSF SURVEY

For the most part, the THECB and NSF research expenditure surveys are similar, but differ in a few key areas that will cause differences:

1. The THECB survey collects information on non-science disciplines and uses them in reporting. In many cases, by institution, this will make the THECB figure higher than NSF's. NSF collects information on non-science disciplines, but in most of their reports keep science and non-science disciplines separated.
2. The NSF survey allows institutions a way of calculating their unreimbursed indirect costs. THECB's survey allows only tracked indirect costs as reported on the institution's annual financial report. Institutions using the NSF calculation will have a considerably higher total in the *Institution* source of funding (see <http://www.nsf.gov/statistics/profiles/> to compare individual institutions).
3. NSF may impute data for institutions who do not respond to the survey or fully complete their form.

## APPENDIX C – INSTITUTIONAL CONTACTS

The following list contains the institutional representatives who submitted the data for this report. They may be contacted directly for additional information regarding research activities on individual campuses.

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This and previous editions of *Research Expenditures* are available at:

<https://www1.thecb.state.tx.us/apps/ResearchExpenditures/>

**Related reports available from our website:**

*Standards and Accounting Methods for Reporting Restricted Research Expenditures*

<http://www.thecb.state.tx.us/reports/PDF/1003.PDF>

*Technology Development and Transfer, FY 2003-2004, March 2005*

<http://www.thecb.state.tx.us/AAR/Research/TechWorkforce/>

*Technology Development and Transfer, FY 2005-2006, March 2007*

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